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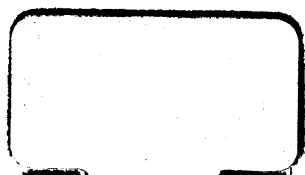
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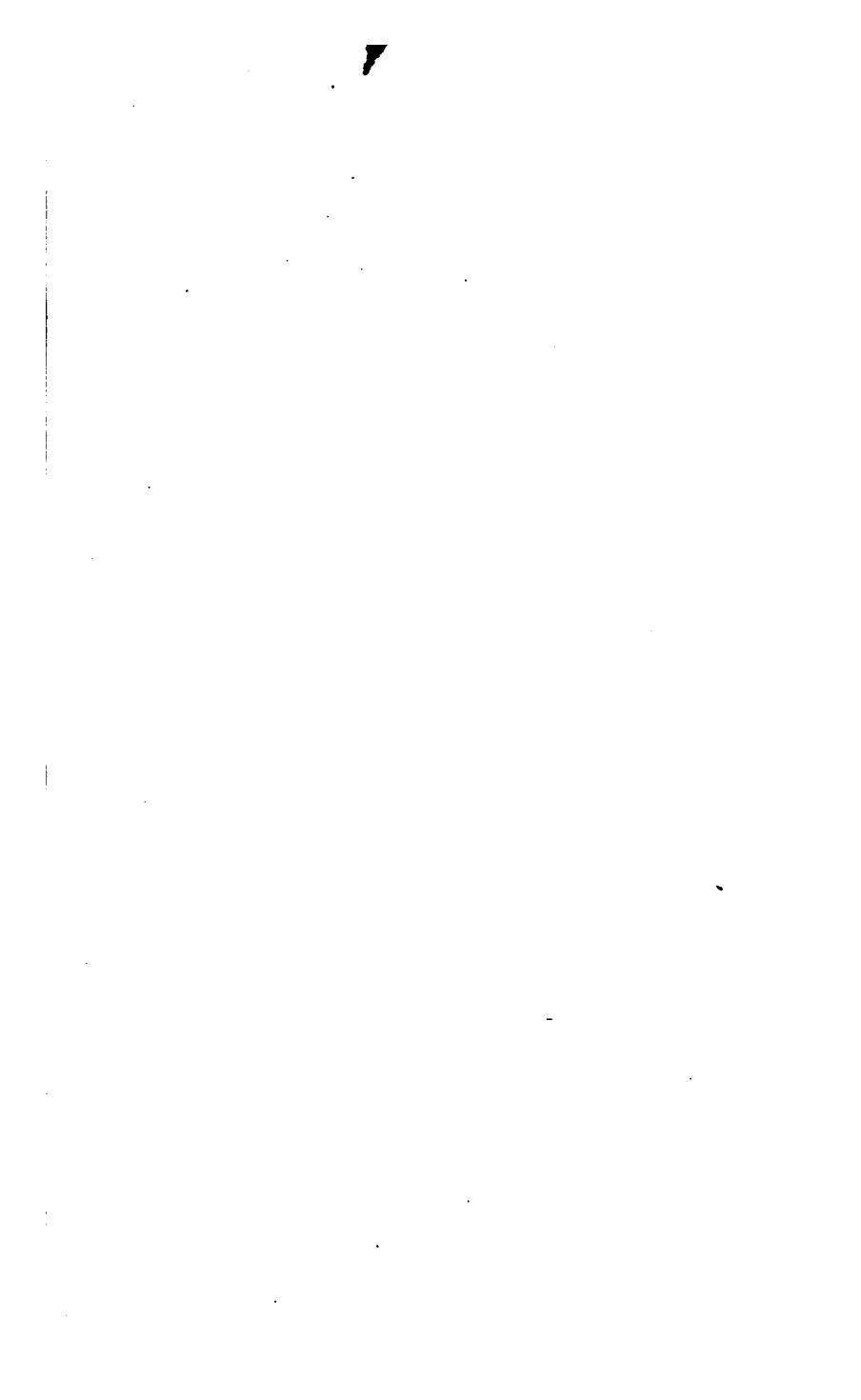
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Frontispice.



THE
Gentleman's Farriery:
OR, A
PRACTICAL TREATISE,
ON THE
DISEASES of HORSES:

Wherein the best WRITERS on that
SUBJECT have been consulted, and

M. La FOSSE's Method of TREPANNING
Glander'd Horses

Is particularly Consider'd and Improved.

ALSO

A New Method of NICKING HORSES
is recommended; with a Copper-Plate and
Description of the MACHINE.

By **J. BARTLET, SURGEON.**

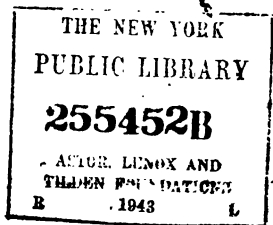
The SECOND EDITION improved.

L O N D O N:

Printed for JOHN NOURSE, against Catherine-Street, in
the Strand; and JOSEPH POTE, at Eton.

MDCCCLIV.

p. 2 B.



L Abitur infelix studiorum, atque immemor herbe,
Victor equus; fontesque avertitur, & pede terram
Crebra ferit: demissæ aures; incertus ibidem
Sudor, & ille quidem morituris frigidus: aret
Pellis, & ad tactum tractanti dura resistit.
Tum vero ardentes oculi; atque attractus ab alto
Spiritus interdum gemitu gravis: imaque longo
Ilia singultu tendunt: it naribus ater
Sanguis, & obsessas fauces premit aspera lingua.

Virgil. Georgic. Lib. III.

THE
P R E F A C E.

THE author of the following treatise was induced to the undertaking, from the complaints so frequently made by gentlemen, of the obscurity, inaccuracy, and tediousness, too general among the writers on the diseases of horses. On this account he thought he should make no unacceptable present to the public, if he collected from the best authors on this subject, such particular symptoms of distempers, as would lead to the discovery of the real one, and distinguish it from others of a similar nature, rejecting all other descriptions as useless speculations. By a due attention to this plan, every gentleman would soon judge of the ability of his farrier, should he think proper to consult one, before he follows the directions here laid down.

A 2

WOULD

The . P R E F A C E .

WOULD these practitioners, instead of ringing the changes with a set of paltry receipts, handed down to them from their ignorant grandsires, but carefully apply themselves to this so useful and necessary branch of knowledge, and industriously collect and compare the symptoms of particular diseases, they would attain much more certainty in their practice, and of course, more safety and expedition in their cures. They would then find, that a few simple medicines, judiciously directed in acute cases, would fully answer their intention, by suffering nature to co-operate with them; and that the nauseous ill-contrived drenches, so generally made use of, but too often thwart her operations, and prove of worse consequence than the disease itself.

FOR it is this knowledge of the symptoms of diseases, that distinguishes the rational physician from the empirical pretender: it is this accounts for the superior ability and judgment which appears between one physician and another; and it is hence only any progress can be made

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made in the healing art; and more particularly in the diseases of horses, as the suffering animals can only describe their pain by their gestures.

WITH what contempt and indignation then must we view such ignorant pretenders blundering about a distemper, groping in the dark, and throwing in medicines at random? And what a melancholy situation must be that of the unhappy victim? The Power of nature, or strength of constitution, will now and then indeed surmount the ignorance of blunderers, and elude the force of their botch-patches; so that the doctor shall receive applauses and rewards for his imaginary skill, when he deserves ignominy and the severest censures. But what should we conclude hence? why only that some few constitutions, like some fortifications, are bomb-proof, and can support the shocks of the whole medical artillery, without blowing up.

*AND here I cannot but lament the strange supineness of many gentlemen, who, though they are real admirers of
this*

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this useful animal, and spare no expence for the cure of their maladies, yet suffer themselves to be imposed on by illetrated grooms, and unskilful farriers; who, for the sake of their own private advantage, are frequently poaching their horses with drenches, which not only clash with every intention of cure, but aggravate the disorder: whereas would gentlemen but take a little pains (and sure the study would be an entertainment) to make themselves acquainted with the laws of the blood's circulation, and the different secretions of the various fluids; they would soon be convinced (of what I have before hinted) that injudicious jumbles of drugs are only a load on the constitution, and frequently defeat the very intentions of nature; who of herself, or with very little assistance, would in general, soon work her own deliverance; but when the load of the supposed remedy is added to the disease, the oppression becomes too violent for nature long to support; and though the animal has the constitution of a horse; yet must it at last submit, and fall a sacrifice to ignorance and blind credulity.

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lity. — A few leading questions would also soon convince gentlemen of the stupidity, but too prevalent among the major part of these prating fellows; and satisfy them how precarious, if not fatal, must be the practice of men, so little acquainted with the laws of nature, and of that machine they are subverting by their continual blunders. By these means also the deserving farrier would have proper justice done him, and be distinguished from the common herd, by his superior abilities.

PERHAPS it may be no useless digression to observe here, that this would not be the only advantage resulting from these kinds of studies; as gentlemen would thereby be enabled to form a proper judgment of those guardians, with whom they often intrust their own healths and lives, and distinguish the superficial loquacious coxcomb in physick, from the rational and modest practitioner: For in general it may be observed, that in proportion to the shallowness of the stream, the bubbling and noise is most manifest, and where the froth of science only

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only has been sip'd, 'tis no wonder, as our judicious Satyrift has observed, that such shallow draughts should intoxicate the brain. But till gentlemen make this a more general study, and thereby become better judges of physical merit, we must not be surprized to find them sometimes imposed on by such conceited smatterers; whose cant, though deemed oracular by the credulous, is but too like the oracles of old, specious delusion, and vile imposition; where learned impertinence passes for sound erudition, and a barren superfluity of words, for wondrous knowledge and elocution: Thus, sounds are adopted, and mistaken for sense; and impudence and folly but too often triumph over modesty and true desert: For as the above quoted Poet justly observes

Distrustful sense with modest caution
speaks,
But rattling nonsense, in full volleys
breaks.

*BUT to return: It may be necessary to inform the reader, that as
the*

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the intention of this treatise was to be as concise as possible, and intirely practical; the immediate causes within, which occasion the disorder, with the most plausible theories relative thereto, are in general omitted as precarious and delusive; for we apprehend they tend rather to confound, than improve the judgment, and obscure an art that should chiefly be founded on penetrating observation, and faithful description. Indeed the incertitude that has always appeared in these sort of conjectures, hath now fully convinced the ingenuous of their inutility, and that one Sydenham, one faithful recorder of facts, has merited more, by observing and following nature, painting to the life what his eyes saw, and fingers felt, than all the hypotheticalal writers united: as a proof of this, we need only recollect the numberless, ridiculous, and inconsistent theories, that have sprung up successively, and which all had their patrons for a time, but dwindled into disrepute and oblivion, in proportion to the advances of more plausible conjectures: and this probably will be the fate of all subsequent

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ones,

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ones, that are not erected on the more solid basis of repeated experience, and sedulous observation.

FOR these reasons particularly we have endeavoured to be as explicit as possible, in enumerating the symptoms, as laid down by the best authors; esteeming them to be the only true guides that can lead us to the knowledge of the disease, and consequently to the remedy. Should it be thought we have dwelt too long on this part, we must plead the importance of it for our excuse, as we apprehend, by being more concise, the work had been less valuable.

IT may not be improper here also to acquaint the reader, that this piece was originally drawn up, and intended for the author's own use, to refer to occasionally, and save the trouble of turning over on every occasion the various writers on this subject; and that having been frequently borrowed by his friends, their approbation of the plan, and request, prevailed on him to send it to the press, with some additions.
He

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He is well aware how much he exposes himself to the censure of the little criticks, and to the sneers of the malicious among his brethren; but he begs these would remember, that to write pertinently on the diseases of horses, requires more medical knowledge and study than may at first be apprehended; a parity of reasoning being requisite in treating the maladies of horses and men. And he is convinced that so nearly allied is the true art of farriery to those of physick and surgery, that it never can be perfected, but on similar principles; and of course the subject can never be so properly handled, as by those who have made those arts their study: This will evidently appear, by comparing only the two last treatises in our own language with all that have preceeded them: For though many useful observations and remedies may be picked up from Blunderville, Markham, De Grey, Solleysel, Gueriniere, Soniere, &c. yet, for the most part, their method is irrational, and not founded on a thorough knowledge of the mechanism of

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a horse, or animal oeconomy; their medicines in general are a strange compound or jumble of various and discordant ingredients; suitable enough to the then reigning fashion of prescribing, where the false pomp of numerous ingredients enhanced their value; but by no means agreeable to later improvements, or to that just simplicity that so remarkably adorns the practice of modern physick and surgery.

THE author has no other apology to make for digesting this piece; and the observations and reflections he has interspersed throughout the whole, than his good intentions to rescue the practice of farriery out of hands that so much abuse it; and to convince gentlemen that as it is founded on rational principles, it is neither unbecoming their notice, or unworthy their study; and he thinks he has reason, from some late attempts to hope, that it will soon become as customary for gentlemen to go through regular courses of farriery, as it is for physicians and surgeons

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surgeons through those of chemistry and anatomy.

THE deserved reputation that Mr. GIBSON's late edition of farriery has acquired on account of the many curious observations he has made, and the accuracy with which he has described the symptoms of horses diseases, was no small inducement also to the author's consenting to this publication; as it was intended to epitomize, or rather glean from that work and others, whatever he judged would be most useful in practice. We here too gratefully acknowledge our obligations to Dr. BRACKEN's treatise on this subject, for many ingenious observations, and real improvements, and must confess that in our opinion, these two gentlemen, are the only authors, who have treated the diseases of horses, with propriety, judgment, and method; though perhaps there are few of note, that we have not carefully perused, in order to render this treatise more complete; but these are the chief of those, who have successfully contributed to introduce a rational system
of

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of farriery, and to assist gentlemen in judging for themselves in cases, wherein every person of a superior education, with any tolerable share of experience, may at least put himself on a footing with the generality of our horse-doctors.

TERMS of art, and obscurity in expression, have purposely been avoided as much as possible; (though sometimes the nature of the subject has forced us to deviate from our intended plan:) For indeed we are more desirous of being intelligible to the meanest capacity, than ambitious of writing in a polish'd style, to which we make no pretensions; and on this account we expect some indulgence from the candid reader.

THE receipts it is hoped, will not be thought too numerous, as their preference to each other is generally pointed out; and as the ingredients of some may not always be procurable, it was therefore thought necessary to substitute others in their stead. Besides, the difficulty that occurs in adjusting the quantities and qualities of various drugs,
though

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though a thing, familiar and easy enough to one acquainted with medicine, would have greatly embarrassed the gentleman student. Should some of them be thought too expensive, we desire it may be remembered, that as we have studied to cure in the shortest method, perhaps there may be little reason for complaint in the event, especially when the expence of the dearest of them is compared with a farrier's bill: Though we have seldom directed any of this sort, without giving the common cheap forms with them; and left the alternative to the circumstance of the reader, and the value of his horse.

WE beg leave however to observe, that the writers on the diseases of horses, are often too sanguine in the virtues they ascribe to particular medicines, and druggs; and too warm in the assertions of their particular success, in their practice and experience. But how are we often disappointed, when we come to compare these observations with our own experience! nor is this so much to be wondered at, when we reflect that no
man

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man by his own practice, can acquire a sufficient knowledge of the virtues, of one tenth part of the simples in use; so that of consequence, writers must copy from one another, and report to us many things on tradition.

WHOEVER is at all acquainted with the power of druggs, even from his own experience, knows how extremely difficult it is to ascertain their medicinal properties; as the same individual medicine, has different effects, not only in different constitutions, and in different diseases, but also in different stages of the same disease. In short, there are so many circumstances, to which we either do not, or perhaps cannot sufficiently attend, which vary their operation and effects, that we are frequently disappointed in our expectations, even of those medicines with which we are best acquainted..

THESE ingenuous hints I thought extremely necessary, in order to convince gentlemen of the great uncertainty of medicine in general; to the end, that they

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they may not be imposed on by the superficial reasonings of farriers in general, who on every occasion are but too ready to poach their horses with some unmeaning drench or other; nor depend too much themselves on every receipt with a probatum est; for if nature or change removes the disorder, the good effects are but too often attributed to the medicine; and if the cause be thereby aggravated, 'tis then ascribed to the malignity of the disease. In truth, nothing is so difficult to ascertain, as the true virtue of medicines, and our fondness for many of them, but too often rises in proportion to our credulity, ignorance, or prejudices: for in our first studies, we have little experience of our own, and must therefore rely on the authorities of others; and before we have gone through the several branches of science we have usually swallowed so many creeds implicitly that 'tis perhaps with difficulty, (so deeply rooted are our prejudices,) we ever get the better of them, and far the greater part perhaps are misled for life. If then the professors

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of

of medicine, whose lives are devoted to the study of the art, are liable to these deviations, and incertitudes, how much more must the gentleman be imposed on, who depends on the authority of a favourite author, or a traditionary receipt, without being at all acquainted with the uncertain operation of druggs in general, or the disease in cure; for this we may venture to affirm, that the effects of medicine, rather take their force from a proper judgement, in the due application of them, than from any constant and inherent virtue of their own; and that 'tis the judicious timing, and adapting the medicine to the circumstance of the disease, that constitutes it either a beneficial remedy, or a destructive poison.

THESE observations 'tis hoped will be of some use to gentlemen; and serve to convince them that neither themselves or horses, need on every slight occasion, be cram'd with medicine; but that abstinence, and proper nursing, will in many cases, be the best remedy; as they will give nature and the constitution sufficient

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sufficient opportunities, to relieve themselves, and of course avail more than the loathsome doses, that are so constantly given, with so little judgment, and less success.

THE chapters on Glanders and Nicking, with the Plates and Explanations annexed, it is hoped, will prove both useful and entertaining; though we have been informed, that the operation of Trepanning Glander'd Horses, was attempted in England, many years before M. La Fosse's book was published; and probably was discontinued, for want of a thorough knowledge of the parts affected in this disease, or from unsuccessful trials made on horses, that might be in the last stages of this distemper, and of course from the nature of them, incurable; but the strong probability of success, in most cases, it is hoped will now be a sufficient inducement to follow the method here laid down, till further experience can recommend a better; and be also a farther incentive to our in-

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dusttry in bringing to perfection, the cure of a disease the most nauseous, and dangerous to our horses, and that hitherto has been a reproach to the art of farriery.

THE chapters on Alteratives and Humours, we hope will be attended to, and particularly the use of nitre so strongly recommended therein, by which means 'tis possible the too frequent use of strong purges, may in time be discarded; for we doubt not when gentlemen are once convinced of the nature and power of alteratives, and guarded against the absurd notions of our farriers, in relation to humours, the preference will be given to the alteratives, and a practice established as innocent and successful, as that of purging is dangerous and uncertain.



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T H E

W.

Gentleman's Farriery, &c.

C H A P. I.

Some General Directions in regard to Horses.

LET it be laid down as a general Medicines rule, to give horses as few are im- *me-* proper to *dicines* as possible; and by no horses in *means* comply with the ridiculous health. *custom* of some, who are frequently *Bleeding, Purging,* and giving *Balls,* though their horses are in perfect health, and have no one indication that requires such treatment.

Proper management in their *Feed-*
ing, Exercise, and *Dressing,* will alone
cure many disorders, and prevent most;

B

for

General Directions in

for the simplicity of a horse's diet, which chiefly consists of grain and herbage, when good in kind, and dispensed with judgment, secures him from those complicated disorders, which are the general effects of intemperance in the human body.

In *France, Germany, and Denmark*, horses are seldom purged; they depend there much on *Alteratives*: the use of the liver of antimony, we have from the *French*, which is in general a good medicine for that purpose, and may, in many cases, often be substituted in the room of purging.

Foreign-
ers depend
more on
alteratives
than purg-
ing medi-
cines.

As *Hay* is so material an article in a horse's diet, great care should be taken to procure the best: when it is not extraordinary, the dust should be well shook out, before it is put in the rack; for such hay is very apt to breed vermin.

The best
hay should
be pro-
cured.

Beans afford the strongest nourishment of all grain, but are fittest for laborious horses; except on particular occasions.

Bran

Bran scalded is a kind of *Panada* to a sick horse; but nothing is worse than a too frequent use of it, either dry or scalded; for it relaxes, and weakens the bowels too much. The bots in young horses may be owing to too much musty bran and chaff, given with other foul feed to make them up for sale: particular care therefore should be taken that the bran be always sweet and new.

Cautions
in the use
of bran.

Oats, well ripened, make a more hearty and durable diet than *Barley*, and are much better suited to the constitutions of *English* horses, as appears by experience. A proper quantity of cut straw and hay mixed with them, is sometimes very useful to horses troubled with bots, indigestion, &c.

Oats the
best diet
for *English*
horses.

Horses who eat their litter, should particularly have cut straw and powdered chalk given them with their feed, as it is a sign of a depraved stomach which wants correcting.

Observa-
tion.

The good
properties
of salt-
marshes.

The *Salt-Marshes* are good pasture, remarkably so for horses who have been surfeited; and indeed for many other disorders: they purge more by dung and urine than any other pasture, and make afterwards a firmer flesh: Their water is for the most part brackish, and of course, as well as the grass, saturated with salts from the sea-water.

Sea-Water
its Use.

The great advantages that arise from drinking *Sea-Water*, so much recommended (among us) of late; may have taken the hint, from the good effects it was observed to produce, in obstinate chronical cases, on morbid horses; who are as frequently sent to the marshes, when all other means are despaired on, as consumptive people are to *Bristol*, and as often recover beyond expectation.

* Grass of
ten Necessary.

A summer's grass is often necessary; more particularly to horses glutted with food; and who use little exercise, but a month or two's running is proper for most; those especially who have

regard to HORSES.

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have been worked hard, and have stiff limbs, swell'd legs, or wind-galls. Horses, whose feet have been impair'd by quitters, bad shoeing, or any other accidents, are also best repaired at grass.

The *Fields* which lie near great towns, and are much dunged, are not proper pasture for horses; but on observation appear very injurious to them, if they feed thereon all the summer.

Cautions
with re-
spect to
pasture.

Horses may be kept abroad all the year, where they have a proper stable or shed, to shelter them from the weather, and hay at all times to come to. So treated, they are seldom sick, their limbs always clean and dry; and with the allowance of corn will *hunt*, and do more business than horses kept constantly at house.

Most hor-
ses would
be best a-
broad all
the year.

If, when horses are taken up from grass, they should grow hot and colicative, mix bran and chopt hay with their corn; and give them sometimes a feed of scalded bran for a fortnight,

Horses
taken up
from grass,
how man-
aged.

General Directions in

or longer: let their exercise and diet be moderate for some time, and both increased by degrees.

Antimonials and alteratives sometimes necessary.

Equal quantities of antimony and sulphur, are sometimes given in their corn or mashes, to sweeten the blood, and keep the body open. The liver of antimony is frequently directed for this purpose, to the quantity of half an ounce at a time; but it is thought by some to succeed best, after the blood has been gradually warmed and fused by the above, or with antimony and gum guaiacum, previously taken for ten or twelve days.

But should be finely powdered.

These antimonials should not be given grossly powdered, as is generally practised, but ground very fine; otherwise little of them will pass into the blood, but will sometimes, when given in large doses, scour themselves off without entering at all.

What herbage the fittest for soiling.

When horses are soiled in the stable, care should be taken that the herbage is young, tender, and full of sap; whether it be green barley, tares, clover,

regard to HORSES.

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clover, or any thing else the season produces, and that it be cut fresh once every day at least; if not oftener: for, when herbage is old and fibrous, it is divested of the sap, has a tendency to putrefaction, and frequently causes obstructions in the bowels; which are sometimes of bad consequence, unless an evacuation is procured, when the dung has often appeared not unlike what has laid a considerable time, mellowing and rotting on a dunghill.

When horses lose their flesh much in foiling, they should in time be taken to a more solid diet; for it is not in foiling, as in grazing; where, though a horse loses his flesh at first, yet after the grass has purged him, he soon grows fat.

Cautions
in foiling.

No general directions can be laid down for the *feeding* of horses, but this; that all horses who constantly work, should be well fed; others should be fed in proportion to their *exercise*; and not kept to certain regular feeds, whether they work or not.

Horses
should be
fed in pro-
portion to
their work

Young

How to
prevent
their crib-
biting.

Young horses who have not done growing, must be indulged more in their feeding, than those come to their maturity; but if their exercise is so little, as to make it necessary to abridge their allowance of hay, a little fresh straw should constantly be put in their racks, to prevent their nibbling the manger, and turning crib biters: they should also sometimes be strapped back in order to cure them of this habit.

Exercise
recom-
mended.

A due degree of *exercise* is of the utmost consequence to maintain a horse in perfect health and vigour. But let it be observed. that a horse is never to be rode hard, or put on any violent exercise, when he has a belly full of meat or water: move him gently at first, and he will naturally mend his pace.

It is obvious to every one, what care should be taken of a horse after violent exercise, that he cools not too fast, and drinks no cold water, &c. for which reason we shall wave particular directions.

The

regard to HORSES.

The usual method of feeding coach-horses on the road, by giving them bran with a few beans before their oats, is not amiss; because their work makes them perspire so much, that without something of this kind, they would be faint, or apt to grow colicative. The *bran* keeps their body open, and the *beans* prevent its scouring, which horses of weak bowels are subject to on a journey.

Bran and
beans,
when pro-
per.

Most horses fed for sale, have the interstices of their muscles, so filled with fat, that their true shapes are hardly known. For which reason, a horse just come out of the *dealer's* hands, should at first be gently used. He ought to lose blood, and have his diet lowered, though not too much: walking exercise is most proper at first, two hours in the day; in a week or fortnight, two hours at a time, twice a day: after this usage for a month, bleed him again, and give him two or three times a week scalded bran, which will prepare him for purging physick, that may now be given

Horses
newly
brought
from the
dealers,
how to be
managed.

Directions in regard to

given safely, and repeated at the usual intervals.

Observation.

When a horse comes out of a dealer's hands, his cloathing must be abated by degrees; and care taken to put him in a moderately warm stable; otherwise the sudden transition would be attended with the worst consequences.

C H A P. II.

Some General Directions in regard to Bleeding, Purging, &c.

Directions concerning bleeding.

HORSES who stand much in stable, and are full fed, require bleeding now and then, especially when their eyes look heavy, dull, red, and inflamed; as also, when they feel hotter than usual, and mangle their hay.

Young horses should be bled when they are shedding their teeth, as it takes

Bleeding, Purging, &c.

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takes off those feverish heats, they are subject to at those times.

But the cases that chiefly require bleeding, are colds, fevers of most kinds, falls, bruises, hurts of the eyes, strains, and all inflammatory disorders, &c.

It is right to bleed a horse, when he begins to grow fleshy at grass, or at any other time when he looks heavy: and it is generally proper to bleed before purging.

Let your horse always be bled by measure, that you may know what quantity you take away: two or three quarts is always enough at one time; when you repeat it, allow for the disorder, and the horse's constitution.

To bleed
always by
measure,

Let the blood when cold, be carefully examined, both as to colour and consistence, whether black, florid, fizy, &c.

Purging is often necessary in gross full horses, in some disorders of the stomach

Cautions
concern-
ing purg-
ing.

Directions in regard to

stomach, liver, &c. but should be directed with caution.

Let it be remembered, that a horse is purged with difficulty; that the physick generally lies twenty four hours in the guts before it works; and, that the tract of bowels it has to pass through, is above thirty yards, and lying horizontally, consequently resinous and other improper drugs may, and often do, by their violent irritations, occasion excessive gripings and cold sweats, shave off the very mucus or lining of the guts, and bring on inflammations, which often terminate in mortifications.

Observation.

'Tis remarkable too, that the stomach and guts of a horse are but thin, compared to some other animals of the same bulk, and therefore must be more liable to inflammation and irritation.

Purges when proper.

Horses kept much in the stable, who have not the proper benefit of air and exercise, in proportion to their food, should in *Spring* have a mild
purge

Bleeding, Purging, &c.

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purge or two, after a previous preparation by bleeding, lowering their diet, and scalded mashes.

Horses that fall off their stomach, whether it proceeds from too full feeding, or ingendering crudities and indigested matter, should have a mild purge or two. Cases that require it most.

Horses of a hot temperament, will not bear the common aloetic purges; their physick therefore should be mild and cooling.

Purging is always found very beneficial in stubborn dry coughs; but mild mercurials joined with them, make them yet more efficacious.

Horses that have those sorts of lamenesses, that are said to proceed from *humours* flying about (which are of the *rheumatic* kind, and in young horses proceed from fizy blood, and occasion lameness in every limb; require frequent purging; and should also have between whites, medicines,

Directions in regard to

medicines, that attenuate and thin the fluids.

Horses of a watry constitution, who are subject to swell'd legs, that run a sharp briny ichor, cannot have the causes removed any ways so effectually as by purging.

The first purge you give to a horse should be mild, in order to know his constitution.

Some mistakes concerning purges.

It is a mistaken notion, that if a proper-prepared purge does not work to expectation, the horse will be injured by it; for though it does not pass by stool, its operation may be more efficacious, as an alterative, to purify the blood, and it may pass by urine, or other secretions.

Purging medicines are very successfully given in small quantities, mixed with others; and act then as alteratives.

If mercurial physick is given, care should be taken that it be well prepared;

Bleeding, Purging, &c.

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pared; and warmer cloathing, and greater circumspection is then required.

Purges should be given early in the morning upon an empty stomach; about three or four hours after the horse has taken it, he should have a feed of scalded bran; and a lock or two of hay may then be put in his rack. The same day give him two more mashes; but should he refuse warm meat, he may be allowed raw bran.

The manner of giving purges and working off.

All his water should be milk warm, and have a handful of bran squeezed in it; but if he refuses to drink white water, give it him without bran.

Early the next morning, give him another mash; but if he refuses to eat it, give him as much warm water as he will drink: let him be properly cloathed, and rode gently about. This should be done two, or three times a day, unless he purges violently, once or twice, will then be sufficient: at night give him a feed of oats mixed with bran.

During

Directions in regard to

During the working, a horse should drink plentifully; but, if he will not drink warm water, he must be indulged with cold, rather than not drink at all.

We shall here insert some general forms of purges.

TAKE succotrine aloes ten drams, jallap and salt of tartar each two drams, grated ginger one dram, oil of cloves thirty drops; make them into a ball with syrup of buckthorn.

Or,

TAKE aloes and cream of tartar each one ounce, jallap two drams, cloves powdered one dram, syrup of buckthorn a sufficient quantity.

Or,

The following, which has an established character among sportsmen.

TAKE aloes, from ten drams to an ounce and a half, myrrh and ginger

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ginger powdered each half an ounce, saffron and oil of anniseed each half a dram.

Half an ounce of *Castile* soap, to a horse of a gross constitution, may be added to any of the above; and the proportions may be increased for strong horses.

When mercurial physick is intended, give two drams of calomel over night, mixed up with half an ounce of a diapente and a little honey, and the purging ball the next morning.

The following when it can be afforded, is a very gentle and effectual purge, particularly for fine delicate horses; and if prepared with the Indian rhubarb, will not be expensive.

TAKE of the finest succotrine aloes one ounce, rhubarb powdered half an ounce or six drams, ginger grated one dram; make into a ball, with syrup of roses.

A mild
purge.

C

The

Directions in regard to

The following purging drink may be given with the utmost safety; it may be quicken'd, or made stronger, by adding an ounce more fenna, or two drams of jalap.

A cooling
purging
drink.

T A K E fenna two ounces, infuse in a pint of boiling water two hours with three drams of salt of tartar; pour off, and dissolve in it four ounces of glauber salts, and two or three of cream of tartar.

This last physick is cooling, easy, and quick in its operation; and greatly preferable in all inflammatory cases to any other purge, as it passes into the blood, and operates also by urine.

Remedies
for over-
purging.

When horses lose their appetites after purging, it is necessary to give a warm stomach drink, made of an infusion of chamomile flowers, anniseeds, and saffron: or the cordial ball may be given for that purpose.

Should the purging continue too long, give an ounce of diascordium in

a pint of Port wine, and repeat it once in twelve hours, if the purging continues. Plenty of gum arabic water should also be given, and in case of violent gripes, fat broth glysters, or tripe liquor, should be often thrown up, with from fifty to an hundred drops of laudanum in each.

When a purge does not work, but ^{When a} makes the horse swell, and refuse his ^{horse} food and water; which is sometimes ^{swells.} the effect of bad drugs, or catching cold: warm diureticks are the only remedy; of which the following are recommended.

TAKE a pint of white wine, ^{A diuretic} nitre one ounce, mix with it a ^{drink.} dram of camphor dissolved in a little rectified spirit of wine; then add two drams of oil of juniper, and the same quantity of unrectified oil of amber, and four ounces of honey, or syrup of marshmallows.

Or,

TAKE venice turpentine one ^{A diuretic} ounce, incorporate with the yolk ^{ball.}

C 2

of

Directions in regard to

of an egg; nitre one ounce, then add juniper berries, and fresh anniseeds pounded, each half an ounce, unrectified oil of amber two drams; make into a ball with syrup of marshmallows.

When a horse swells much with physick, do not suffer him to be rode about till he has some vent, but rather lead him gently in hand, till some evacuation is obtained.

Horses
drinks to
be made
palatable.

As it is observed, that horses more willingly take sweet and palatable things, than those that are bitter and of an ill taste; care should be taken that the latter are given in balls: and that their drinks are always contrived to be as little neauseous as possible, and sweetened either with honey or liquorice, Those that are prepared with gross powders, are by no means so agreeable to a horse, as those made by infusion; as the former often clam the mouth, irritate the membranes about the palate and throat, and frequently occasion the cough they are intended to prevent.

Balls

Balls should be of an oval shape, ^{Horses} and not exceed the size of a pullet's ^{balls} egg; when the dose is larger, it should ^{should not} be divided into two; and they should ^{be too} be dipt in oil, to make them slip ^{large.} down the easier.

As we have given some general forms of purges, we shall observe the same rule in regard to glysters, with some few cautions and remarks.

Let it be observed then, that before ^{Horses} the administering emollient glysters ^{should be} in costive disorders, a small hand well ^{raked be-} oiled should be passed up the horse's ^{fore their} fundament, in order to bring away ^{glysters.} any hardened dung, which otherwise would be an obstacle to the glyster's passage.

A bag and pipe of a proper form, ^{A pipe and} is to be preferred to a syringe, which ^{big pre-} throws up the glyster with so much ^{ferable to} force, that it often surprizes a horse, ^{a syringe.} and makes him reject it, as fast as it goes in: whereas the liquor, when pressed gently from the bag, gives him

Directions in regard to

no surprize or uneasiness, but passes easily up into the bowels, where it will sometimes remain a long time, and be extreamly useful, by cooling and relaxing them; and will sometimes incorporate so with the dung, as not easily to be distinguished, from the other contents of the guts. These emollient sort of glysters are extreamly serviceable in most fevers, and greatly preferable to purging ones; which in general are too pungent, and stimulate too much, especially if aloes are a part of the composition.

**Nutritive
glysters.**

Nutritive glysters are very necessary, and often save a horse from starving, when his jaws are so locked up by convulsions, that nothing can be conveyed by the mouth.

They should not exceed a quart or three pints at a time, but be often repeated: nor should they be too fat; but made of sheeps heads, trotters, or any other meat broths; milk porage, rice-milk strained, and many other such nourishing things; for an emollient glyster take the following.

TAKE

TAKE marshmallows and chamomile flowers each a large handful, bay-berries and sweet fennel-seeds bruised, each an ounce; boil in a gallon of water to three quarts, pour off into a pan, and dissolve in it half a pound of treacle, and a pint of linseed oil, or any common oil.

An emol-
lient glyf-
ter.

To make it more laxative, add four ounces of lenitive electuary, or the same quantity of cream of tartar, or common purging salts.

TAKE two or three handfuls of marshmallows, fenna one ounce, bitter apple half an ounce, bay-berries and anniseed bruised, each an ounce, salt of tartar half an ounce; boil a quarter of an hour in three quarts of water, pour off, and add four ounces of syrup of buckthorn, and half a pint of oil.

A purging
glyster.

This glyster will purge a horse pretty briskly; and may be given successfully, when an immediate discharge

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charge is wanting; especially in some fevers with inflamed lungs, or other disorders, which require speedy relief.

Observation.

But the generality of emollient glysters, may be prepared with much less trouble: as two quarts of water gruel, with half a pound of treacle, a pint of oil, and a handful of common salt, will as effectually answer every purpose. The following is a restraining glyster.

A restraining glyster.

T A K E pomegranate bark, or oak bark two ounces, red rose leaves, fresh or dry, a handful, balauſtines an ounce; boil in two quarts of water, till one is near consumed; pour off and dissolve in it four ounces of diascordium; to which may be added a pint of Port wine.

This will answer in all common cases, where restringents are necessary, but should never be given in larger quantities; for the longer glysters of this kind lie in the bowels, the more efficacious they are.

C H A P,

Of COLDS. 25

CHAP. III.

Of COLDS.

AS the source of the generality of fevers, coughs, and many other disorders, that both men and horses are subject to, arise originally from taking cold; I have made that disorder the subject of my first chapter, as introductory to the subsequent ones, on *Fevers, Pleurisy, Coughs, &c.* Colds are the first source of most fevers

The doctrine of perspiration (which I wish in general better understood, because it is so principally concerned in most acute disorders) is now so evidently demonstrable, that I am almost tempted to explain it, so far at least, as would give my readers a general idea thereof, and of the consequence of its suppression, or being checked: but, as it would be breaking through the limits I have prescribed myself, I must desire they would have recourse, for further satisfaction on that head, to *Chamber's Dictionary, Art. Perspiration.* Perspiration what,

By

Taking cold, what By taking cold then, we mean that the pores and outlets of the skin (which in a natural healthy state of body, are continually breathing out a fine fluid, like the steam arising from hot water, or smoke from fire) are so far shut up, that these steams, or perspirable matter, not having a free passage through them, are hindered from going off in the usual manner; the consequence of which is, their recoiling on the blood, vitiating its quality, overfilling the vessels, and affecting the head, glands or kernels of the neck and throat, the lungs, and other principal parts:

The causes. To enumerate the various causes of colds, would be endless: the most usual are, riding horses till they are hot, and suffering them to stand in that condition, where the air is cold and piercing; removing a horse from a hot stable to a cold one, and too suddenly changing his cloathing: hence it is, that horses often catch such severe colds, after they come out of dealers hands; and by not being carefully rubbed

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rubbed down, when they come in hot off journeys.

The signs of a horse's catching cold, ^{The symp-} are a cough, heaviness and dullness; ^{toms.} which affect him, more or less, in proportion to the severity of it: the eyes are sometimes moist and watery, the kernels about the ears and under the jaws swell, the nose glects, and he rattles in his breathing; and when the cold is violent, the horse will be feverish, his flanks work, and he will both loath his hot meat, and refuse his water. When these last symptoms are attended with a slimy mouth, ears, and feet cold, and a great inward soreness, there is danger of a bad fever

But when the horse coughs strong, ^{Good} snorts after it, is but little off his sto- ^{symptoms} mach, pricks up his ears, and moves briskly in his stall, dungs and stales freely, his skin feels kindly, and his coat does not stare, he is in no danger, and there will be no occasion for medicines of any kind; but you should bleed him about two quarts, keep him warm, and give him feeds of scalded bran.

Of COLDS.

bran, with as much warm water as he will drink, in order to dilute his blood.

The cure. If the disorder should increase, the horse feel hot, and refuse his meat; bleed him, if a strong one, two quarts more; and if you are not satisfied, without giving medicines, avoid as you would a poison, a farrier's drench; (which is generally composed of some hot, nauseous powders, given in a quantity of ale; which too often increases the fever, by overheating the blood, and palls the horse's stomach by its loathsomeness.) And instead of it, infuse two ounces of anniseeds; with a dram of saffron, in a pint and a half of boiling water; pour off the clear and dissolve in it four ounces of honey; to which may be added four spoonfuls of sallad oil: this drink may be given every night; or one of the following balls, provided there is no fever; in which case, it always will be more eligible to give two, or three ounces of nitre, or salt prunella every day in his feeds, or water, till it is removed: this method of treating colds we have explained, in our animadversions on
nitre

Of COLDS.

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nitre, and the great efficacy of this medicine; but should the horse be inclined to costiveness, remember that his body should be kept open by emollient glysters, or cream of tartar dissolved in his water, to the quantity of three or four ounces a day.

TAKE of the fresh powders of anniseed, elicampane, carraway, ^{The pectoral horse} liquorice, turmerick, and flower ball. of brimstone, each three ounces; juice of liquorice four ounces, dissolved in a sufficient quantity of mountain, saffron powdered half an ounce, fallad oil and honey each half a pound, oil of anniseed one ounce: mix together with wheat-flower enough to make them into a paste.

Or, Take the following from Dr. BRACKEN.

TAKE anniseed, carraway seed, and ^{The cordial ball.} greater cardamoms, finely powdered, of each an ounce, flower of brimstone two ounces, turmerick in fine powder, one ounce and a half, saffron two drams. Spanish juice

Of COLDS.

juice dissolved in water, two ounces, oil of anniseed half an ounce, liquorice - powder one ounce and a half; wheat flower, a sufficient quantity, to make into a stiff paste, by beating all the ingredients well in a mortar.

Observations on it.

These balls consist of warm opening ingredients; and, given in small quantities, about the size of a pullet's egg, will encourage a free perspiration; but in case of a fever, should be cautiously continued. They are much more efficacious, and in all cases superior to the farriers drenches, if dissolved in a pint of warm ale.

General observations.

This simple method, with good nursing and hot mashes, warm water and cloathing, especially about the head and throat, which promotes the running at the nostrils, will answer in most sudden colds; and when the horse feeds heartily, and snorts after coughing, moderate exercise every day will hasten his recovery.

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The scalded bran should be put hot Particular ones. into the manger, for the steams conduce not a little, to promote the running, which is often very plentiful, and greatly forwards the cure. His manger should be kept clean, by filling with straw; his hay well shook and sprinkled with water, and given in small quantities: for his breathing, at this time, taints the hay, and then he will not touch it.

To a horse loaded with flesh, a rowel may sometimes be necessary, as may also a gentle purge or two, to some, when the distemper is gone off.

C H A P. IV.

Of FEVERS in General.

AS I purposely avoid giving descriptions of diseases, or so much as guessing at the causes within, which bring them about, I shall immediately enter upon the symptoms which denote a simple fever present. The symptoms of a fever. These are

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are great restlessness, the horse ranging from one end of his rack to the other; his flanks beat; his eyes are red and inflamed; his tongue parched and dry; his breath is hot, and smells strong; he loses his appetite, and nibbles his hay, but don't chew it, and is frequently smelling to the ground; the whole body is hotter than ordinary (though not parched, as in some inflammatory disorders;) he dungs often, little at a time, usually hard, and in small bits; he sometimes stales with difficulty, and his urine is high coloured; his flanks beats, and he seems to thirst, but drinks little at a time, and often; his pulse beats full and hard, to fifty strokes and upwards in a minute.

The first intention of cure is bleeding, to the quantity of two or three quarts, if the horse is strong, and in good condition; then give him a pint of the following drink four times a day; or an ounce of nitre, mixed up into a ball with honey, may be given thrice a day, instead of the drink, and washed

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washed down with three or four horns of any small liquor.

TAKE of baum, sage, and chamomile flowers each a handful, liquorice-root sliced half an ounce, salt prunel, or nitre, three ounces; infuse in two quarts of boiling water, when almost cold strain off, and squeeze into it the juice of two or three lemons, and sweeten with honey.

The fever balls and drink.

As the chief ingredient to be depended on in this drink is the nitre; it may perhaps be as well given in water alone; but as a horse's stomach is soon palled, and he requires palatable medicines, the other ingredients may in that respect have their use. *Soleysel* for this purpose advises two ounces of salt of tartar, and one of sal armoniac to be dissolved in two quarts of water, and mix'd with a pail of common water; adding a handful of bran or barley flower to qualify the unpleasant taste: this may be given every day, and is no bad medicine.

A remark.

D

His

The diet
in fevers.

His diet should be scalded bran, given in small quantities; which, if he refuses, let him have dry bran sprinkled with water: put a handful of pick'd hay into the rack, which a horse will often eat, when he will touch nothing else: his water need not be much warmed, but should be given often, and in small quantities: his cloathing should be moderate, too much heat and weight on a horse being improper in a fever; which scarce ever goes off in critical sweats, (as those in the human body terminate) but by strong perspiration.

If, in a day or two he begins to eat his bran, and pick a little hay, this method with good nursing will answer: but if he refuses to feed, more blood should be taken away, and the drinks continued; to which may be added two or three drams of saffron, avoiding at this time all hotter medicines; the following glyster should be given, which may be repeated every day, especially if his dung is knotty and dry.

TAKE

Of FEVERS.

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TAKE two handfuls of marsh-mallows, and one of chamomile flowers; fennel seed an ounce; boil in three quarts of water to two, strain off, and add four ounces of treacle, and a pint of linseed oil, or any common oil.

Theemol-
lient glyf-
ter.

Two quarts of water-gruel, fat Remarks.
broth, or pot-liquor, with the treacle
and oil, will answer this purpose;
to which may be added a hand-
ful of salt. These sort of glysters are
properer than those with purging in-
gredients.

The following opening drink is
very effectual in these fevers, and may
be given every other day, when the
glysters should be omitted; but the
nitro-balls or drink may be continued,
except on those days these are taken.

TAKE of cream of tartar four
ounces, Glauber salts two ounces; An open-
ing fever
drink.
dissolve in barley-water, or any
other liquor.

D 2

Four

Four ounces of Glauber salts, or cream of tartar, with the same quantity of lenitive electuary, may be given for the same purpose, if the former should not open the body sufficiently.

The signs
of reco-
very.

In four or five days the horse generally begins to pick his hay, and has a seeming relish to food; though his flanks will heave pretty much for a fortnight: yet the temper of his body, and return of appetite, shew that nothing more is requisite to compleat his recovery, than walking him abroad in the air, and allowing plenty of clean litter to rest him in the stable.

Practical
observa-
tions.

This method of treating a fever is simple, according to the laws of nature; and is confirmed by long experience, to be infinitely preferable to the hot method.

The intention here is to lessen the quantity of blood, promote the secretions of urine and perspiration, and cool and dilute the fluids in general.

How

How far vinous cordials, strong beer-drinks loaded with fiery powders, and such methods are likely to answer these purposes, is submitted to the judicious observer; as also, whether adopting the cool one in its stead is not as real an improvement in farriery as physic.

There is another sort of fever that <sup>A com-
pound
fever.</sup> horses are subject to of a more com-
plicate and irregular nature than the
former; which, if not properly treated,
often proves fatal.

The signs are a slow fever with <sup>The
symptoms.</sup> languishing, and great depressions;
the horse is sometimes inwardly hot,
and outwardly cold; at other times
hot all over, but not to any extreme;
his eyes look moist and languid; he
has a continual moisture in his mouth,
which is the reason he seldom cares to
drink, and then he does but little at a
time. He feeds but little, and leaves off
as soon as he has eat a mouthful or
two; his body is commonly open; his
dung soft and moist, but seldom greasy;

OF FEVERS.

his staling is often irregular, sometimes little, at other times profuse, seldom high-coloured, but rather pale, with little or no sediment.

When a horse's appetite declines daily, till he refuses all meat, it is a bad sign. When the fever doth not diminish, or keep at a stand, but increases, the case is then dangerous. But when it sensibly abates, and his mouth grows drier, the grating of his teeth ceases, his appetite mends, and he takes to lay down (which perhaps he has not done for a fortnight) these are promising signs.

The farrier should sometimes be consulted.

The various and irregular symptoms that attend this slow fever, require great skill to direct the cure, and more knowledge of the symptoms of horses diseases, than the generality of gentlemen are acquainted with. The experienced farrier should therefore be consulted and attended to, in regard to the symptoms; but very seldom as to the application of the remedy, which is generally above their comprehension; though it may be readily selected, by

by duly attending to the observations here inculcated.

First then, a moderate quantity of blood, not exceeding three pints, may be taken away, and repeated in proportion to his strength, fullness, inward soreness, cough, or any tendency to inflammation. After this, the fever-drink, p. 33 may be given, with the addition of an ounce of snake-root, and three drams of saffron and camphor, dissolved first in a little spirit of wine; the quantity of the nitre may be lessen'd, and these increased, as the symptoms indicate. The cure.

The diet should be regular; no oats given, but scalded, or raw bran sprinkled; the best flavoured hay should be given by handfuls, and often by hand, as the horse sometimes cannot lift up his head to the rack. The diet.

As drinking is so absolutely necessary to dilute the blood, if the horse refuses to drink freely of warm water or gruel, he must be indulged with having the chill only taken off, by standing in the Dilution necessary.

Of FEVERS.

the stable; nor will any inconvenience ensue, but oftner an advantage: for, the nauseous warmth of water, forced on horses for a time, palls their stomachs and takes away their appetites, which the cold water generally restores.

When the fever increases.

Should the fever after this treatment increase, the horse feed little, stale often, his urine being thin and pale, and his dung sometimes loose, and at other times hard; should the moisture in his mouth continue, his skin being sometimes dry, and at others moist, with his coat looking staring, and surfeited. Upon these irregular symptoms which denote great danger, give the following balls, or drink; for in these cases there is no time to be lost.

The compound fever balls.

TAKE of contrayerva-root, myrrh, and snake-root powdered, each two drams, saffron one dram, mithridate or Venice treacle half an ounce, make into a ball with honey, which should be given twice or thrice a day, with two or three

Of FEVERS.

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three horns of an infusion of snake root, sweetened with honey; to a pint and half of which may be added, half a pint of treacle water, or vinegar, which latter is a medicine of excellent use, in all kinds of inflammatory and putrid disorders, either external or internal.

Should these balls not prove successful, add to each a dram of camphor, and where it can be afforded, to a horse of value, the same quantity of castor. Or the following drink may be substituted in their stead for some days.

TAKE of contrayerva and snake-root, of each two ounces, liquorice-root sliced one ounce, saffron two drams; infuse in two quarts of boiling water close covered for two hours, strain off, and add half a pint of distilled vinegar, four ounces of spirit of wine, wherein half an ounce of camphor is dissolved, and two ounces of mithridate, or Venice treacle; give

The fever
drink.

Of FEVERS.

give a pint of this drink, every four, six, or eight hours.

A more simple drink, and perhaps full as efficacious may be thus prepared.

TAKE Camphor one dram dissolved in rectified spirit of wine one ounce, then gradually pour on a pint of distilled vinegar warm'd and give for two doses. The quantity of camphor may be increased.

Should the horse be costive, recourse must be had to glysters, or the opening drink: should he purge, take care not to suppress it, if moderate; but if, by continuance, the horse grows feeble, add diascordium to his drinks, instead of the mithridate; if it increases give more potent remedies.

Observation.

Let it be remembered, that camphor is a very powerful and effectual medicine, in these kinds of horse fevers; being both active and attenuating, and particularly calculated to promote the secretions

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Secretions of urine and perspiration, it has been long celebrated in malignant fevers, as it gives motion to stagnant humours, in the most distant parts, and promotes their expulsion by the common outlets; nitre may be advantageously joined with it in many cases.

A horse should drink plentifully to promote the operation of these medicines; but instead of them, to a horse of small value, give an ounce of a diapente, and half an ounce of mithridate, and one dram of camphor, with a strong infusion of rue, scordium and snake root, in the manner as above directed.

Regard should also be had to his staling; which, if in two great quantities, so as manifestly to depress his spirits, should be controuled by proper restringents, or by preparing his drinks with lime-water. If, on the contrary, it happens that he is too remiss this way, and stales so little as to occasion a fullness, and swelling of his

Symptoms
to be re-
garded.

Of FEVERS.

his body and legs, recourse may be had to the following drink:

A drink to
promote
urine.

TAKE of salt-prunella, or nitre,
one ounce ; juniper-berries, and
Venice turpentine, of each half
an ounce ; make into a ball with
oil of amber.

Give him two or three of these balls,
at proper intervals, with a decoction of
marshmallows, sweetened with honey.

Bad symp-
toms in
fevers.

But if notwithstanding the method
we have laid down, a greenish or
redish gleet is discharged from his
nostrils, with a frequent sneezing ; if
he continues to lose his flesh, and be-
comes hide bound ; if he altogether
forsakes his meat, and daily grows
weaker ; if he swells about the joints,
and his eyes look fixed and dead : if
the kernels under his jaws swell, and
feel loose ; if his tail is raised and
quivers ; if his breath smells strong,
and a purging ensues with a discharge
of fetid, dark coloured matter, his
case may then be look'd on as desperate,
and

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and all future attempts to save him will be fruitless.

The signs of a horse's recovery are known by his hide's keeping open, and his skin feeling kindly; his ears and feet will be of a moderate warmth, and his eyes brisk and lively; his appetite mends, he lays down well, and both stales and dungs regularly. Signs of a horse's recovery.

Be careful not to overfeed him on his recovery; let his diet be light, feeds small, and increased by degrees as he gets strength: for by overfeeding, horses have frequent relapses, or get surfeits which are always difficult of cure.

This is the most successful method of treating these irregular, malignant fevers; where it is evident, by the various efforts nature makes to relieve herself, she wants assistance, and a spur to quicken her motions. For by the use of these warm medicines a crisis, or termination of the disease is quickened and promoted, as appears by the alteration made both in the urine and Practical observation.

Of FEVERS.

and skin ; the former of which, by its thickness, shews signs of concoction, as it is called, or of a separation of the feverish matter from the blood ; and the latter by its smoothness and glossiness proves that a regular and free perspiration is obtained : these two secretions are of such importance to the welfare of every animal, that the necessity of rectifying them, when disordered, is obvious from the consequences.

The cure
of an in-
termitting
fever.

If this fever should be brought to intermit, or prove of the intermitting kind, immediately after the fit is over, give an ounce of Jesuit's bark, and repeat it every six hours, till the horse has taken four or six ounces ; should eruptions or swellings appear, they ought to be encouraged, for they are good symptoms at the decline of a fever, denote a termination of the distemper, and that no further medicines are wanted.

Reasons
why so
many hor-
ses die in
fevers.

The true reasons perhaps why so many horses miscarry in fevers, are, that their masters, or doctors, will not wait

wait with patience, and let nature have fair play: that they generally neglect bleeding sufficiently at first; and are constantly forcing down sugar sops, or other food in a horn, as if a horse must be starved in a few days, if he did not eat: then they ply him twice or thrice a day with hot medicines and spirituous drink, which (excepting a very few cases) must be extremely pernicious to a horse, whose diet is naturally simple, and whose stomach and blood, unaccustomed to such heating medicines, must be greatly injured, and without doubt are often inflamed by such treatment.

From the experience we lately had Of epidemic fevers. of the epidemic cold and fever among our horses, and from the observations of others in the years 1732 and 1734, it evidently appeared that the simplest method of treatment succeeded best. Thus it is proper to bleed largely at first, to the quantity of three quarts, if the horse is full and strong: and if it appears that his lungs are not relieved by it, but continue stuffed and loaded, the bleeding should be repeated;

peated; and a rowel may be put in his chest or belly.

A general
method of
cure.

Dilute the blood with plenty of water, or white drink; let his diet be warm bran mashes, and his hay sprinkled. Should the fever rise, which will be known by the symptoms above described, give him an ounce of nitre thrice a day in his water, or made up in a ball with honey. Let his body be kept cool and open, with the opening drink, given twice or thrice a week; or an ounce of salt of tartar may be given every day, dissolved in his water, for that purpose, omitting then the nitre. After a week's treatment in this manner, the cordial ball may be given once or twice a day, with an infusion of liquorice root sweetened with honey; to which may be added, when the phlegm is tough, or cough dry and husky, a quarter of a pint of linseed, or salad oil, and the same quantity of oxymel squills.

Necessary
cautions.

As the kernels about the throat are greatly swelled in these cases, I need not mention the necessity of keeping the

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the head and throat warmer than ordinary, to promote a freer perspiration, and forward the running at the nose, which in a horse answers the end of spitting, or expectoration in us: but the nose should never be syringed, as is sometimes done, to promote this discharge; which it often checks, and occasions bad swellings in the neighbouring parts and glands: for let it be remembered these are critical runnings of nature's own appointment, which by art may soon be frustrated. The following cooling purge is very proper to give at the decline of the distemper, and may be repeated three or four times.

TAKE two ounces of fenna; anni-
seed and fennel bruised each half
an ounce; salt of tartar three
drams; let them infuse two hours
in a pint of boiling water; strain
off, and dissolve in it three ounces
of Glauber salt, and two of cream
of tartar: give for a dose in the
morning.

A cooling
purge.

E

This

This purge generally works before night very gently; and in fevers, and all inflammatory disorders, is infinitely preferable to any other physick.

Before we close this chapter on fevers, it may be no improper hint to the curious, to take notice that a horse's pulse should more particularly be attended to than is customary, as a proper estimate may thereby be made both of the degree and violence of the fever present, by observing the rapidity of the blood's motion, and the force that the heart and arteries labour with to propel it round.

The pulse
of horses
should be
attended
to.

The highest calculation that has been made of the quickness of the pulse in a healthy horse, is, that it beats about forty strokes in a minute; so that in proportion to the increase above this number, the fever is rising, and if farther increased to above fifty, the fever is very high.

How to
calculate
the pulse.

How often the pulse beats in a minute may easily be discovered by measuring

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measuring the time with a stop-watch, or minute sand-glass, while your hand is laid on the horse's near side, or your fingers on any artery; those which run up on each side the neck, are generally to be seen beating as well as felt a little above the chest; and one within side each leg may be traced with the finger.

A due attention to the pulse is so important an article, in order to form a proper judgment in fevers, that it would appear amazing it has so much been neglected, if one did not recollect, that the generality of *farriers* are so egregiously ignorant that they have no manner of conception of the blood's circulation, nor in general have they ability enough to distinguish the difference between an artery and a vein.—With such pretty guardians do we intrust the healths and lives of the most valuable of animals!

The knowledge of the pulse of great importance.

For which reason I cannot too much inforce the necessity of this study and practice, as it is evident to

E 2

every

every one with what scrupulous attention the human pulse is examined in every feverish stage, and how often the physician's judgment is chiefly directed by it : What discoveries therefore might not be made by accurate observations on the pulse of horses, both in regard to the quickness of the blood's motion, and to the hardness of the artery, from its difficult vibrations ! It would be a sure guide to distinguish an inflammatory fever with dense fizy blood, from an irregular depressed one ; it would direct us more certainly when, and how often we should repeat bleeding in fevers, and other disorders, and when we should draw off blood previous to purging ; or refrain from the latter, till by lowering the horse's diet, his constitution and blood is reduced to a proper temper ; for in such as are replete and sanguine, without this caution an inflammation of the bowels is soon brought on by the irritations, such stimulating medicines produce on vessels too turgid, and many a horse's life has been sacrificed to this neglect, but more particularly fine, high fed ones. It would also be of use

use to discover whether a horse has recovered himself in due time, after having been drove hard, either on the chace, or race, &c. &c. This digression, it is hoped, will be more readily pardoned, as it is not a meer matter of speculation, but a practical remark.

C H A P. V.

Of a PLEURISY and Inflammation of the Lungs, &c.

THESE disorders have scarce been mentioned by any writer in farriery before Mr. *Gibson*; who, by frequently examining the carcases of dead horses has found them subject to the different kinds of inflammations here described.

Inflammatory disorders are frequent in horses.

He has often discovered matter on the pleura (or membrane which lines the chest internally) making its way into the chest; he has found in some horses the whole substance of the lungs black,

54th Of a PLEURISY, and

black, and full of a gangreen'd water ;
and in others abscesses of various sizes ;
and in short, inflammations in every
bowel. In order to distinguish these
disorders from others, we shall de-
scribe the symptoms in Mr. *Gibson's*
own words.

The signs
of a pleu-
rify, and
inflamma-
tion of the
lungs.

“ A pleurify then, which is an in-
flammation of the pleura ; and a perip-
neumony, which is an inflammation
of the lungs ; have symptoms very
much alike ; with this difference only,
that in a pleurify a horse shews great
uneasiness, and shifts about from place
to place ; the fever which at first is
moderate, rises suddenly very high ; in
the beginning he often strives to lie
down, but starts up again immediately,
and frequently turns, his head towards
the affected side, which has caused
many to mistake a pleuritic disorder
for this gripes, this sign being common
to both, though with this difference :

How to
distinguish
them from
the gripes.

In the gripes a horse frequently lies
down, and rolls, and when they are
violent, he will also have convulsive
twitches, his eyes being turned up,
and

Inflammation of the Lungs,

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and his limbs stretched out, as if he was dying; his ears and feet sometimes occasionally hot, and sometimes as cold as ice; he falls into profuse sweats, and then into cold damps, strives often to stale and dung, but with great pain and difficulty; which symptoms generally continue, till he has some relief: But in a pleurisy, a horse's ears and feet are always burning-hot, his mouth parched and dry, his pulse hard and quick; even sometimes when he is nigh dying, his fever is continued and increasing; and though in the beginning he makes many motions to lie down, yet afterwards he reins back as far as his collar will permit, and makes not the least offer to change his posture, but stands panting with short stops, and a disposition to cough, till he has relief, or drops down.

In an inflammation of the lungs, several of the symptoms are the same, only in the beginning he is less active, and never offers to lie down during the whole time of his sickness; his fever is strong, breathing difficult, and attended with a short cough; and whereas in

The symptoms of
inflamed
lungs.

Of a PLEURISY, and

a pleurisy, a horse's mouth is generally parched and dry, in an inflammation of the lungs, when a horse's mouth is open, a roapy slime will run out in abundance; he glects also at the nose; a reddish or yellowish water, which sticks like glue to the inside of his nostrils.

In a pleurisy, a horse heaves and works violently at his flanks, with great restlessness, and for the most part his belly is tucked up; but in an inflammation of the lungs, he always shews fullness, and the working of his flanks is regular, except after drinking and shifting his posture; and his ears and feet are for the most part cold, and often in damp sweats.

The cure
of a pleu-
rify, and
inflamed
lungs.

The cure of both these disorders is the same. In the beginning a strong horse may lose three quarts of blood, the next day two quarts more; and if symptoms do not abate, the bleedings must be repeated, a quart at a time; for it is speedy, large, and quick. repeated bleedings that are in these cases chiefly to be depended on. But if a horse

Inflammation of the Lungs.

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horse has had any previous weakness or is old you must bleed him in less quantities, and oftner. Mr. Gibson recommends rowels, one on each side the breast, and one on the belly; and a blistering ointment to be rubbed all over his brisket upon the foremost ribs,

The diet and medicines should be both cooling, attenuating, relaxing, and diluting; and the horse should have warm mashes, and plenty of water, or gruel. The following balls may be given thrice a day.

TAKE of sperma-ceti and nitre, ^{Pectoral}
of each one ounce; oil of anni- ^{balls.}
seed thirty drops; honey enough
to make a ball.

A pint of barley-water in which figs and liquorice root have been boiled, should be given after each ball; to which the juice of lemons may be added; and if the lungs are greatly oppressed with a dry short cough, two or three horns full of the decoction may be given three or four times a day

Of a PLEURISY, and

day, with four spoonfuls of honey and linseed oil. A strong decoction of the rattle-snake-root is also much recommended in pleuritic disorders, and may be given to the quantity of two quarts a day, sweetened with honey. It remarkably attenuates the blood, and disperses the inflammation, and in some parts is deemed a specific for this complaint.

*Glysters
necessity.*

An emollient glyster should be injected once a day, to which may be added two ounces of nitre, or cream of tartar.

In two or three days he will probably run at the nose, and begin to feed; but should he not, and continue hot and short-breathed, you must bleed him again, and give the following glyster.

*A purging
glyster.*

TAKE senna and marshmallows, of each two ounces: fennel and bay-berries, each one ounce: boil in five pints of water to two quarts, pour off the clear, and add four ounces of purging salts, two or three of syrup of buckthorn

Inflammation of the Lungs. 59

thorn, and half a pint of linseed,
or any common oil.

If by these means he grows cooler,
and his pain moderates, repeat the
glyster the next day, unless it worked
too much; then intermit a day; and
when he comes to eat scalded bran and
picked hay, leave off the balls, and
continue only the decoction, with
now and then a glyster.

But let it be observed, that a horse
feldoms gets the better of these disor-
ders, unless he has relief in a few days;
for if the inflammation is not checked
in that time, it usually terminates in
a gangrene, or collection of matter,
which for want of expectoration, soon
suffocates him.

Observation.

But as pleuritic disorders are apt to
leave a taint on the lungs, great care
should be taken of the horse's exercise
and feeding, which should be light and
open for two or three weeks. Thus a
quartern of bran scalded, with a spoon-
ful of honey and flower of brimstone,
may be given every day; with two or
three

The
horse's
diet and
exercise
should be
well at-
tended to.

Of a PLEURISY, and

three small seeds of oats, sprinkled with chamber-lye. Instead of the bran, for a change, give about a quart of barley scalded in a double infusion of hot water, that it may be softened, and the water given to drink. His exercise should be gradual, in an open air and fair weather; and when his strength is recovered, a gentle purge or two should be given; that of rhubarb, when it can be afforded, is best, or the purging drink already recommended for this purpose.

An external pleurisy.

There is also an external pleurisy or inflammation of the muscles between the ribs.

The signs.

The signs are a stiffness of the body, shoulders, and fore-legs; sometimes with a short dry cough, and a shrinking when handled in those parts. When not well cured, it lays the foundation of what is called a chest-founder.

The cure.

Bleeding, soft pectorals, and gentle purges, are the internal remedies; and externally the parts affected may be

Of a COUGH, and

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be bathed with equal parts of spirit of sal armoniac, and ointment of marsh-mallows, or oil of chamomile.

These outward inflammations frequently fall into the inside of the fore-leg, and sometimes near the shoulder; forming abscesses; which terminate the disorder.

The membrane which separates the lungs, and more particularly the diaphragm, or midriff, is often also inflamed; which is scarce to be distinguished from the pleurisy, only in this, that when the midriff is greatly inflamed, the horse will sometimes be jaw-set, and his mouth so much closed that nothing can be got in: but the method of cure is the same.

The diaphragm and other parts of the chest subject to inflammation.

CHAP. VI.

Of a COUGH, and ASTHMA.

THE consequence often of the preceding disorders injudiciously treated are settled habitual coughs; which

The causes of a settled cough..

which frequently degenerate into
asthmas, and broken-wind.

Various are the causes assigned for
this last disorder, which, as merely
conjectural, we shall wave; but the
appearances on the dissection of
broken-winded horses, will be taken
notice of in the proper place.

**Coughs to
be distin-
guished.** Nothing has more perplexed practi-
tioners than the cure of settled
coughs; the cause of which, perhaps,
has been their want of attention to the
different symptoms which distinguish
one cough from another; for without
strict observance thereof, it is impos-
sible to find out the true method of
cure.

Thus if a horse's cough is of long
standing, attended with loss of appe-
tite, wasting of flesh, and weakness,
it denotes a consumption; and that
the lungs are full of knotty, hard sub-
stances, called tubercles, which have
often been discovered on dissection.
Vide Consumption.

The

Of a 'COUGH,' and 63

The following signs denote, when the cough proceeds from phlegm, and slimy matter, that stuff up the vessels of the lungs.

The horse's flanks have a sudden quick motion; he breathes thick, but not with his nostrils open, like a horse in a fever, or that is broken-winded; his cough is sometimes dry and husky, sometimes moist, before which he wheezes, rattles in the throat, and sometimes throws out of his nose and mouth great gobs of white phlegm, especially after drinking, or when he begins or ends his exercise, which discharge commonly gives great relief. Some such horses wheeze and rattle to such a degree, and are so thick-winded, that they can scarce move on, till they have been out some time in the air; though then they will perform beyond expectation.

These are properly asthmatic cases, and ought to be distinguished in their symptoms from that pursiveness and thick windedness we see in some horses,

horses, occasioned by too full or foul feeding want of due exercise, or their being taken up from winter's grass. But these two last cases are easily cured by proper diet and exercise; in the one by lowering his keeping, and in the other by increasing it.

The above asthmatic case proves often very obstinate; but, if it happens to a young horse, and the cough is not of long standing, it is greatly relieved, if not totally cured, by the following method.

The cure. If the horse is full of flesh, bleed him plentifully; if low in flesh, more sparingly; which may occasionally be repeated, on very great oppressions, and difficulty of breathing, in proportionate quantities.

Mercurials recommended.

As mercurial medicines are found remarkably useful in these cases, give a mercurial ball (with two drams of calomel) over night, and a common purge the next morning: or the following, which is much recommended by Mr. Gibson.

TAKE

TAKE gum-galbanum, ammo- An altera-
tive purge
niacum, and assa foetida, of each
two drams; fine aloes one ounce;
saffron one dram; oil of anniseeds
two drams; oil of amber one
dram; with honey enough to
form into a ball.

They may be repeated at proper
intervals, with the usual cautions. In
the intermediate days, and for some
time after, one of the following balls
may be given every morning.

TAKE cinnabar of antimony, Balls for
an obsti-
nate cough
finely levigated, six ounces; gum
ammoniacum, galbanum, and
assa foetida of each two ounces;
garlick four ounces; saffron half
an ounce; make into a paste
for balls, with a proper quantity
of honey.

These balls are extreamly well cal-
culated for this purpose; but if they
are thought too expensive, the cordial
ball may be given, with an eighth
part of powder'd squills and Bar-
badoes

badoes tar; or equal quantities of the above, and cordial ball may be beat up together; and where they can be afforded, balsam of Peru, balsam of sulphur, and flowers of Benjamin, would undoubtedly, added to the cordial ball, make it a more efficacious medicine, in cases of this sort.

Exercise
and diet
particular-
ly recom-
mended.

Exercise in a free open air is very serviceable, and the diet should be moderate. Horses subject to any inward oppressions of the lungs, should never be suffered to have a belly-full; that is, they should never be permitted so to distend their stomach with meat or water, as to press against the midriff; which of course would hinder respiration. Their hay should even be abridged, given in small quantities, and sprinkled with water; and their usual allowance both of corn and water, should be divided into several portions: by such a regulation in diet, horses may be so recovered as to do great service; and in all disorders of the lungs it is what should principally be attended to.

The

The following are the symptoms of a dry cough, or asthma.

The signs of a dry cough, or asthma.

The horse afflicted with this cough, eats heartily, hunts and goes through his business with alacrity, appears well coated, and has all the signs of perfect health; yet he shall cough at particular times almost incessantly, without throwing up any thing, except that the violence of the cough will cause a little clear water to distil from his nose. Though this cough is not periodical, yet some of these horses cough most in a morning, after drinking.

This may properly be stiled a nervous asthma in a horse; as probably it chiefly affects the nerves in the membranous parts of the lungs and midriff. And is a case very doubtful at least, if not incurable; but when the horse is young the following method may be successful.

F 2

Take

The cure. Take away first a moderate quantity of blood; then give him two drams of calomel, mixed up with an ounce of diapente, for two nights; and the next morning a purging ball. Keep him well cloathed and littered, and feed him with scalded bran and warm water.

Once in eight or ten days this purge may be repeated, with one mercurial ball only, given over-night.

The following balls may then be taken, one every day, about the size of a pullet's egg, the horse fasting two hours afterwards; and should be continued two months or longer, to be of real service.

Balls for
an obsti-
nate dry
cough.

TAKE native cinnabar, or cinnabar of antimony, half a pound; gum guaiacum four ounces; myrrh, and gum ammoniac, of each two ounces; Venice soap half a pound: the cinnabar must be finely levigated, as before observed, and the whole mixed up with honey, or oxymel squills.
The

The following also will be found a useful remedy in obstinate dry coughs.

TAKE gum ammoniacum, squills and Venice soap of each four ounces, balsam of sulphur with anniseeds one ounce, beat up into a mass, and give as the former.

These mercurial and ponderous medicines are well adapted to open obstructions in the lungs, and prevent those little knots, or tubercles, which so frequently ulcerate, and lay the foundation of an incurable malady, or consumption; but the common pectorals alone will avail nothing in old stubborn coughs; their efficacy being lost in the long tour they have to make, before they come to the lungs; and indeed, were it otherwise, without they had such powerful openers joined with them, they would be of little consequence; for where there are any expectations from medicines, such are chiefly to be re-

Observation.

lied on, which have a power of dissolving and attenuating the viscid humours, opening the small obstructed vessels, and promoting all the natural secretions.

Before we close this chapter, it may be necessary to observe here that some young horses are subject to coughs on cutting their teeth, their eyes also are sometimes affected from the same cause. In these cases always bleed, and if the cough is obstinate, repeat it, and give warm mashes; which in general are alone sufficient to remove this complaint. But when the cough is an attendant on worms, as it often is in young horses, you must give such medicines as have a power to destroy those animals; particularly mercurial physick at proper intervals and immediately half an ounce of *Æthiop's* mineral mixed up with the cordial or pectoral balls, may be given every day. *Vide* Ch. WORMS.

C H A P. VII.

Of a BROKEN-WIND.

THIS disorder hitherto seems to have been little understood, but The cause of broken-wind. Mr. *Gibson* is inclined to think, that the source of it is frequently owing to injudicious, or hasty, feeding young horses for sale; by which means the growth of the lungs, and all the contents within the chest are so increased, and in a few years so preternaturally enlarged, that the cavity of the chest is not capacious enough for them to expand themselves in, and perform their functions.

A narrow contracted chest with large lungs may sometimes naturally be the cause of this disorder: and it has been observed that horses rising eight years old, are as liable to this distemper, as at a certain period of life men fall into asthmas, consumptions, and other chronic diseases.

The

72. Of a BROKEN-WIND.

Why horses rising seven or eight, grow broken-winded.

The reason why this disorder becomes more apparent at this age may be, that a horse comes to his full strength and maturity at this time: at six he commonly finishes his growth in height; after that time he lets down his belly and spreads, and all his parts are grown to their full extent; so that the pressure on the lungs and midriff is now more increased.

But how little weight soever these reasons may have, repeated dissections have given ocular proofs of a preternatural largeness, not only of the lungs, of broken-winded horses, but of their heart, and its bag; and of the membrane which divides the chest; as well as of a remarkable thinness in the diaphragm, or midriff.

The parts affected in broken-winded horses.

This disproportion has been observed to be so great, that the heart and lungs have been almost of twice their natural size, perfectly sound, and without any ulceration whatever; or any defect in the wind-pipe, or its glands.

Hence

Of a BROKEN-WIND. 73.

Hence it appears that this enormous size of the lungs, and the space they occupy, by hindering the free action of the midriff, is the chief cause of this disorder; and as the substance of the lungs was found more fleshy than usual, they of course must lose a great deal of their spring or tone.

This fleshiness and size of the lungs may in a great measure be the cause, why the inspirations in broken-winded horses are disproportionately slow; for we may observe that they draw in their breath slowly, their flanks filling up, and rising with difficulty: but that their flanks fall suddenly, and their breath bursts forth with violence, both from the mouth and nostrils; inso-much that a man in the dark, by holding his hands on a horse's mouth and nose, may easily discover if he is broken-winded.

The difficulty in breathing accounted for.

Whoever considers a broken-wind in this light, must own that it may be reckoned among the incurable distempers of horses; and that all the boasted pretensions

Broken-wind incurable.

74 Of a BROKEN-WIND.

pretensions to cure are vain and frivolous, since the utmost skill can amount to no more than now and then palliating the symptoms, and mitigating their violence.

We shall therefore only lay down such methods as may probably prevent this disorder, when pursued in time. But if they should not succeed, we shall offer some remedies and rules to mitigate its force, and to make a horse as useful as possible under this malady.

The symptom which foretels a broken-wind.

'Tis usual before a broken wind appears, for an horse to have a dry obstinate cough, without any visible sickness, or loss of appetite; but on the contrary a disposition to foul feeding, eating the litter, and drinking much water.

In order then to prevent, as much as possible, this disorder, bleed him, and give him the mercurial physic above prescribed, which should be repeated two or three times.

The

Of a BROKEN-WIND. 75.

The following balls are then to be taken for some time, which have been found extremely efficacious in removing obstinate coughs.

TAKE aurum mosaicum, finely powdered, eight ounces; myrrh and elicampane, powdered, each four ounces; anniseeds and bayberries, each an ounce; saffron, half an ounce; make into balls with oxymel squills. Balls for a broken-wind.

The aurum mosaicum is made of equal parts of quicksilver, tin, sal armoniac, and sulphur. We give this medicine as strongly recommended by Mr. Gibson; but how far the aurum mosaicum may contribute to its efficacy, may perhaps justly be disputed: as a substitute in its room therefore, for this purpose we recommend the same quantity of powdered squills, or gum ammoniacum; or equal parts of each; for this end also the following is recommended,

TAKE

76 Of a BROKEN-WIND.

TAKE gum ammoniacum galbanum, and assa foetida of each two ounces ; squills four ounces, cinabar of antimony six ounces, saffron half an ounce, make into a paste with honey. Give a pullet's egg every morning.

The diet
for broken
winded
horses.

Broken winded horses should eat sparingly of hay, which as well as their corn may be wetted with chamber lye, or fair water ; as this will make them less craving after water.

Garlick
recom-
mended.

The volatile salts in the urine may make it preferable to water, and may be the reason why garlick is found so efficacious in these cases ; two or three cloves given at a time in a feed, or three ounces of garlick bruised and boiled in a quart of milk and water, and given every other morning for a fortnight, having been found very serviceable, for by warming and stimulating the solids, and dissolving the tenacious juices, which choke up the vessels of the lungs, these complaints are greatly relieved.

Careful

Of a BROKEN-WIND. 77

Careful feeding and moderate exercise has greatly relieved broken-winded horses; and though for the first summer they have not been able to endure much labour, yet many have been found less oppressed the second, and some scarce perceptibly affected the third; and even able to bear great fatigue. And could a horse be kept constantly in the field, and taken up only when used, he might by this management do good service for many years.

Broken
winded
horses
should be
constantly
abroad.

But whoever expects to cure his horse, by sending him out to grass, will find himself disappointed; especially if he remains abroad after the spring grass: for on his return to the stable and dry meat, he will be more oppressed and short breathed than before, for want of the open air and moist food he had been accustomed to.

Necessary
cautions.

Horses sent to grass in order to be cured of an obstinate cough, have often returned compleatly broken-winded

78 *Of a BROKEN-WIND.*

winded, where the pasture has been rich and succulent, so that they have had their bellies constantly full. As the ill consequence therefore is obvious, where you have not the conveniency of turning out your horse for a constancy, you may soil him for a month or two with young green barley, tares, or any other young herbage.

Thick-winded horses, how treated.

To purgative thick-winded horses, Barbadoes and common tar have often been given with success to the quantity of two spoonfuls mixed with the yolk of an egg, dissolved in warm ale, and given fasting two or three times a week, especially those days you hunt or travel.

But in order to make all these sorts of horses of any real service to you, the grand point is to have a particular regard to their diet, observing a just œconomy both in that and their exercise; giving but a moderate quantity of hay, corn, or water, at a time, and moistening the former, to prevent their requiring too much of the latter, and

Of a CONSUMPTION.

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and never exercising them but with moderation, as has before been observed. The following alterative ball may be given once a fortnight or three weeks, and as it operates very gently, and requires no confinement but those days it is given (when warm meat and water are necessary) it may be continued for two or three months.

T A K E succotrine aloes six drams, myrrh galbanum and ammoniacum, of each two drams; bayberries half an ounce: make into a ball with a spoonful of oil of amber, and a sufficient quantity of syrup of buckthorn.

An alterative purging ball.

C H A P. VIII.

Of a CONSUMPTION.

W H E N a Consumption proceeds from a defect in a horse's lungs, or any principal bowel; the eyes look dull; the ears and feet are mostly hot; he coughs sharply by fits; sneezes much, and frequently groans with it; his

The signs of a consumption.

80 Of a CONSUMPTION.

his flanks have a quick motion; he gleans often at the nose, and sometimes throws out a yellowish curdled matter, and he has little appetite to hay, but will eat corn, after which he generally grows hot.

The cure. As to the cure, one of the principal things is bleeding in small quantities (a pint, or pint and half from some horses is sufficient) which should be repeated as often as the breath is more than ordinarily oppressed. Pectorals may be given to palliate present emergent symptoms; but as dissections have discovered both the glands of the lungs, and mesentery to be swelled, and often indurated, the whole stress lies on mercurial purges, and the following ponderous alteratives, given intermediately.

**Alterative
powders.**

T A K E native cinnabar, or cinnabar of antimony, one pound; powder very fine, and add the same quantity of gum guaiacum and nitre; give the horse an ounce of this powder, twice a day, wetting his feeds.

The

Of a BROKEN-WIND. 81

The spring grass is often extremely serviceable, but the salt-marshes are to be preferred, and even to be more depended on than medicines; for great alterations are thereby made in the blood and juices, and no small benefit arises from open air, and proper exercise. The salt marshes are commended.

But it may be worth observing that when a horse frequently relapses, after appearances of amendment, when a yellowish gleet, or curdled matter runs from his nose, and he grows emaciated, is much addicted to sweat, heaves much with a reduplicated motion, and has a short rattling cough; under these circumstances there can be little hopes of his recovery, or any future services from him, consequently to save further expences, the best way would be to dispatch him as an incurable. Observation.

As many of the above medicines in this, and the preceeding chapter for coughs, may be thought too expensive for horses of no great value, tar-water
G may A remark.

Of an Apoplexy, or

may supply their place; and perhaps will be found on trial no unworthy medicine, as Barbadoes and common rat has been experienced very effectual in some sort of coughs, and of great service to thick-winded horses.

C H A P. IX.

Of an Apoplexy, or Staggers, Convulsive Disorders, Lethargy, Epilepsy, and Palsy.

Disorders
of the head
how to be
disting-
guished.

FARRIERS generally include all distempers of the head under two denominations, viz. *Staggers* and *Convulsions*; wherein they always suppose the head primarily affected. But in treating these disorders, we shall distinguish between those that are peculiar to the head, as having their source originally thence; and those that are only concomitants of some other disease, where the head is affected secondarily by consent of nerves, the source of this disorder being in the stomach, bowels, &c. By this method

method we shall avoid many blunders, which would otherwise arise in practice, for want of knowing the true seat of the disorder.

In an apoplexy a horse drops down suddenly, without other sense or motion than a working at his flanks.

The previous symptoms are drowsiness, watry eyes, somewhat full and inflamed; a disposition to reel, feebleness, a bad appetite; the head almost constantly hanging, or resting on the manger; sometimes with little or no fever, and scarce any alteration in the dung or urine: the horse is sometimes disposed to rear up, and apt to fall back when handled about the head, which is often the case with young horses, to which it does not prove suddenly mortal, but with proper help they may sometimes recover. If the apoplexy proceeds from wounds, or blows on the head, or matter on the brain, besides the above symptoms, the horse will be frantick by fits, especially after his feeds, so as to start

The symptoms of apoplexy, or staggers.

Of an Apoplexy, or

and fly at every thing. These cases seldom admit of a perfect recovery; and when horses fall down suddenly, and work violently at their flanks, without any ability to rise after a plentiful bleeding, they seldom recover.

The cure.

All that can be done is to empty the vessels as speedily as possible, by striking the veins in several parts at once, bleeding to four or five quarts and to raise up the horse's head and shoulders, supporting them with plenty of straw. If he survives the fit, cut several rowels; give him night and morning, glysters prepared with a strong decoction of senna and salt, or the purging glyster mentioned in the directions; blow once a day up his nostrils a dram of powder of asarabacca, which will promote a great discharge, afterwards two or three aloetic purges should be given; and to secure him from a relapse, by attenuating and thinning his blood, give him an ounce of equal parts of antimony and crocus metallicorum for a month; or which is preferable, the same quantity of cinabar

nabar of antimony and gum guaiacum.

If the fit proceeds only from fullness of blood, high feeding, and want of sufficient exercise, or a fizy blood (which is often the case with young horses, who though they reel, stagger, and sometimes suddenly fall down, yet are easily cured by the above method) an opening diet with scalded bran and barley will be necessary for some time; and the bleeding may be repeated in small quantities.

When the staggers are not dangerous.

As to the other disorders of the head, such as lethargy or sleeping evil epilepsy or falling sickness, vertigo, frenzy and madness, convulsions, and paralytical disorders, as they are most of them to be treated as the apoplexy, by bleeding and evacuations with the alteratives above directed, we shall wave treating on them separately, but mention some particular rules to distinguish them, according to the plan we laid down, and then offer some general remedies to the several purposes.

Lethargy
Vertigo.

aspert

G 3

Thus

Epilepsy
and con-
vulsions.

Thus in order to distinguish epileptic disorders and convulsions (which are often occasioned by worms, bots, and ulcerations of the stomach, bowels, and midriff) from those which arise from original causes in the head only, we shall describe the symptoms which distinguish them from each other; by which means we shall be able to avoid any mistake in the application of the remedy: and as epileptic disorders have by ignorant farriers been mistaken for the gripes, we shall also distinguish these disorders by the symptoms.

How epileptic disorders are distinguished from gripes.

In an epilepsy, or falling sickness, the horse reels and staggers, his eyes are fixed in his head, he has no sense of what he is doing, he stares and dungs insensibly, he runs round and falls suddenly; sometimes he is immoveable, with his legs stretched out, as if he was dead, except only a quick motion of his heart and lungs, which causes a violent working of his flanks; sometimes he has involuntary motions, and shaking of his limbs, so strong, that he has not only beat and spurned his

his litter, but the pavement with it; and with these alternate symptoms a horse has continued more than three hours, and then has as surprizingly recovered; at the going off of the fit, he generally foams at the mouth, the foam being white and dry, like what comes from a healthful horse when he champs on the bit.

But in all kinds of gripes, whether they proceed, from disorders in the guts, or retention of urine, a horse is often up and down, rows and tumbles about, and when he goes to lie down generally makes several motions with great seeming carefulness, which shews he has a sense of his pain, and if he lays stretched out for any time, it is generally but for a short space. *The symptoms of gripes described.*
Vide Chap. GRIPES.

Epilepsies and convulsions may arise from blows on the head; too violent exercise, and hard straining; and from a fullness of blood, or impoverished blood, and surfeits; which are some of the causes that denote the original disorder. *Epilepsies and convulsions arise from different causes.*

But

Of an Apoplexy, or

But the head may also be affected by sympathy of nerves; for excessive pain in any part of the body will excite convulsions, especially if the nerves and tendinous parts are affected, as by wounds, punctures, and bruises, externally; and by ulcers, gatherings of matter, and by bots and worms, wounding and vellicating the nervous parts internally; long costiveness has sometimes also occasioned these disorders. In all such cases, the original cause must principally be attended to.

In lethargic disorders the horse generally rests his head with his mouth in the manger, and his pole often reclin'd to one side; he will shew an inclination to eat, but generally falls asleep with his food in his mouth, and he frequently swallows it whole, without chewing: emollient glysters are extremely necessary in this case, with the nervous balls recommended for the staggers, and convulsions.

Young
horses
subject to
convul-
sions from
bots.

Young horses from four to six years, are very subject to this disease, from
bots

bots in the spring; and the large coach-breed more than the saddle: they are seized without any previous notice, and if bots and worms are discovered in their dung, the cause seems to be out of doubt, more especially if they are lately come out of a dealer's hands.

When this convulsion proceeds from a distemperature of the midriff, or any of the principal bowels, it is to be distinguished from bots and vermin by previous symptoms: the horse falls off his stomach; grows gradually weak, feeble, and dispirited in his work; and turns short-breathed with the least exercise.

The lively description of that universal cramp or convulsion, called by some the stag-evil, which seizes all the muscles of the body, at once, and locks up the jaws, so that it is impossible almost to force them open, we shall give in Mr. Gibber's own words; who says, As soon as the horse is seized, his head is raised with his nose towards the rack, his ears pricked up,

From the midriff.

Convulsions from the stomach, and other principal bowels described.

Of an Apoplexy, or

up, and his tail cocked, looking with eagerness, as an hungry horse when hay is put down to him, or like a high-spirited horse when he is put upon his mettle; insomuch that those who are strangers to such things, when they see a horse stand in this manner, will scarce believe any thing of consequence ails him; but they are soon convinced, when they see other symptoms come on a pace, and that his neck grows stiff, cramped, and almost immoveable; and if a horse in this condition lives a few days, several knots will arise on the tendinous parts thereof, and all the muscles both before and behind, will be so much pulled and cramped, and so stretched, that he looks as if he was nailed to the pavement, with his legs stiff, wide and stradling, his skin is drawn so tight on all parts of the body that it is almost impossible to move it; and if trial be made to make him walk, he is ready to fall at every step, unless he be carefully supported; his eyes are so fixed with the inaction of the muscles, as gives him a deadness in his looks; he snorts and sneezes often,
pant

pants continually with shortness of breath: and this symptom increases continually till he drops down dead; which generally happens in a few days; unless some sudden and very effectual turn can be given to the distemper.

In all these cases the horse should first be bleed plentifully, unless he is low in flesh, old, or lately come off any hard continued duty, then you must be more sparing of his blood; afterwards give the following ball: The cure of convulsions.

TAKE assa foetida half an ounce; Ruffia castor powdered two drams; valerian root powdered, one ounce: make into a ball with honey and oil of amber. The nervous ball.

This ball may be given twice a day at first; and then once, washed down with a decoction of milletoe, or valerian, sweetened with liquorice, or honey: an ounce of assa foetida may be tied up in a piece of strong coarse linnen rag, and put behind his grinders to champ on.

The

Of an Apoplexy, or

The laxative purges and emollient glysters should be given intermediately to keep the body open; but when the former balls have been taken a week or ten days, the following may be given once a day with the valerian decoction.

Another
nervous
ball.

T A K E cinnabar of antimony six drams, assa foetida half an ounce, aristolochia, myrrh and bay berries, of each two drams: make into a ball with treacle and oil of amber.

This is the most effectual method of treating these disorders; but when they are suspected to arise from bots, and worms, which is generally the case, mercurial medicines must lead the way. Thus,

A mercurial ball.

T A K E mercurious dulcis, and philonium, of each half an ounce: make into a ball with conserve of roses, and give the horse immediately; half the quantity may be repeated in four or five days.

The

The following infusion should then be given, to the quantity of three or four horns, three or four times a day, till the symptoms abate; when the above nervous balls may be continued till they are removed.

TAKE penny royal and rue, of each two large handfuls; chamomile flowers one handful; assa foetida and castor, of each half an ounce; saffron and liquorice root sliced, of each two drams: infuse in two quarts of boiling water; pour off from the ingredients as wanted.

If the castor is omitted, add an ounce of assa foetida.

The following ointment may be rubbed into the cheeks, temples, neck, shoulders, spine, of the back and loins, and wherever there is the greatest contractions and stiffness.

TAKE nerve and marshmallow ointment, of each, four ounces; oil

Of an Apoplexy, or

oil of amber two ounces ; with a sufficient quantity of camphorate spirit of wine : make a liniment.

To horses of small value, give the following :

T A K E rue, penny-royal, and tobacco, of each a handful ; assa foetida an ounce ; boil in a quart of ferge-water : let the decoction stand in the ingredients, and give as the former.

When the jaws are so locked up that medicines cannot be given by the mouth, it is more eligible then to give them by way of glyster, for forcing open the jaws by violence, often puts a horse into such agonies, that the symptoms are thereby increased, The infusion above may be given for this purpose, or the following.

T A K E rue, penny-royal, and chamomile flowers, of each a handful, valerian root one ounce, boil in five pints of water to
two

two quarts ; in the strained liquor dissolve castor and assa foetida of each half an ounce, or of assa foetida alone one ounce, common oil four ounces. Give this glyster once a day.

In this case also he must be supported by nourishing glysters, made of milk pottage, broths, &c. which must be given to the quantity of three or four quarts a day ; glysters of this kind will be retained, and absorbed into the blood ; and there have been instances of horses that supported for three weeks together, who must otherwise have perished.

Mr. *Gibson* mentions some extraordinary instances of success in cases of this sort by these methods, and repeated frictions, which are extremely serviceable in all convulsive disorders, and often prevent their being jaw-set ; they should be applied with unwearied diligence every two or three hours, wherever any stiffness or contractions on the muscles appear, for a horse

Frictions
very use-
ful in all
convulsive
cases.

in

in this condition never lies down till they are in some measure removed.

A remarkable case.

He takes particular notice of a horse, whose jaws were so locked up for three weeks, that both food and medicine were forced to be given by glyster; That not having recovered the use of his jaws for a fortnight, though he now moved them with less stiffness, he was determined, from the known relaxing power of opium, to give him half an ounce of it, dissolved in one of his glysters, the good effects of which were so evident, by a general amendment, that he was encouraged to continue it in the following manner.

TAKE Matthew's pill, and assafoetida, of each an ounce: make into a ball.

This ball he gave for one dose, and repeated once; and by this, and the use of the nervous medicines given twice a week, and gentle purging, the horse was perfectly recovered.

The

The use of rowels in these cases is generally unsuccessful, the skin being so tense and tight, that they seldom digest kindly, and sometimes mortify; so that if they are applied, they should be put under the jaw, and in the breast.

Rowels
sometimes
of bad
consequences

In paralytic disorders, where the use of a limb or limbs is taken away, the internals above recommended, should be given in order to warm, invigorate, and attenuate the blood; and the following Stimulating embrocation should be rubbed into the parts affected.

How pa-
ralytic
disorders
should be
treated.

TAKE oil of turpentine four ounces, nerve ointment and oil of bays, of each two ounces; camphor rubbed fine, one ounce; rectified oil of amber three ounces, tincture of cantharides one ounce.

A warm
stimulat-
ing lini-
ment.

With this liniment the parts affected should be well bathed for a considerable time, to make it pene-

H trate;

trate; and when the hind parts chiefly are lame, the back and loins should be well rubbed with the same; to the nervous medicines above recommended, may be added snake-root, contrayerva, mustard seed, horse-radish root, steep'd in strong beer, or wine where it can be afforded. Take the following for an example, which may be given to the quantity of three pints a day alone, or two horns full may be taken after the nervous balls.

The paralytic infusion.

TAKE snake root, contrayerva and valerian of each half an ounce, mustard seed and horse-radish root scraped, of each two ounces, long pepper two drams, infuse in three pints of strong beer or wine.

How the lethargy or sleepy evil should be treated.

In lethargic disorders, strong purgatives are not required, but opening glysters, with the cinnabrine and gummy medicines: nor must you bleed in too large quantities, unless the horse be young and lusty. In old horses, rowels and evacuations are improper,

improper, but volatiles, of all kinds are of use when they can be afforded.

When the horse is recovering, the following alterative purge may be repeated two or three times, as it operates very gently.

TAKE succotrine aloes one ounce; myrrh half an ounce; assa foetida and gum ammoniacum, of each two drams; saffron one dram: make into a ball with any syrup.

An alterative purge.

Where a retention of dung is the cause of this disorder, the great gut should first be raked thoroughly with a small hand, after which plenty of emmollient oily glysters should be thrown up, and the opening drink given till the bowels are thoroughly emptied of the imprisoned dung. Their diet should for some days be opening, and consist chiefly of scalded bran with flower of brimstone, scalded barley, &c.

How to treat disorders of the head from costiveness

H 2

This

100 *Of the Strangles, and Vives.*

Observation.

This general method we hope will give sufficient light into the nature of these disorders, and their treatment, without minutely entering into their causes; which in some cases, perhaps are inscrutable; and where the most plausible writers have appeared rather as learned triflers than satisfactory reasoners.

CHAP. X.

Of the STRANGLES, and VIVES.

The strangles described.

THE strangles is a distemper, to which colts, and young horses are very subject; and begins with a swelling between the jaw-bones, which sometimes extends to the muscles of the tongue; and is attended with so great heat, pain, and inflammation, that sometimes till matter is formed, the horse swallows with the utmost difficulty.

The

Of the Strangles and Vives. 101

The symptoms are extraordinary ^{The symptoms.} heat and feverishness, with a painful cough, and a great inclination to drink without being able; some horses losing their appetite intirely, others eating but little, by reason of the pain which chewing and swallowing occasions: when the swelling begins on the inside of the jaw bones, it is much longer in coming to matter than when more to the middle; when it arises among the glands, and divides into several tumours, the cure is generally tedious, as it breaks in different places; and when it forms upwards on the windpipe and gullet, there is sometimes danger of suffocation, unless the swelling soon breaks. But the most dangerous kind is, when, besides the above symptoms, the horse runs at the nose; this by some is called the bastard strangles.

As this disorder seems to be critical, ^{The cure.} the most approved method is to assist nature in bringing the swellings to maturity, by keeping them constantly moist with ointment of marshmallows,

102 *Of the Strangles, and Vives.*

and covering the head and neck with a warm hood. But as all swellings in glandular parts suppurate slowly, the following poultice may be applied hot twice a day: it is also a very proper one to ripen, or bring any other swelling to matter.

A suppurating
poultice.

TAKE leaves of marshmallows ten handfuls; white lilly-root half a pound; linseed and fenu-greek seed bruised, of each four ounces: boil them in two quarts of water till the whole is pulpy, and add four ounces of ointment of marshmallows, and a sufficient quantity of hogs-lard, to prevent its growing stiff and dry.

In five or six days, by these means, the matter is generally formed, and makes its way through the skin; and if the discharge is made freely and with ease, the opening need not be enlarged; but should be dressed with the following ointment spread on tow, still continuing the poultice over it to promote the digestion, and prevent any remaining hardness.

TAKE

Of the Strangles, and Vives. 103

TAKE rosin and Burgundy pitch, of each a pound and half; honey and common turpentine, each eight ounces; yellow wax four ounces; hogs-lard one pound; verdigrease finely powdered one ounce: melt the ingredients together, but don't put in the verdigrease, till removed from the fire; and it should be stirred in by degrees, till the whole is grown stiff and cool.

A general digestive ointment.

If the fever and inflammation run high, and the swelling be so situated as to indanger suffocation, a moderate quantity of blood must be taken away, and the remainder diluted with plenty of water gruel, or warm water, mashes, &c.

Bleeding sometimes necessary.

The running at the nose, which often attends the strangles, is dangerous; especially if it continues after they have ripened and broke, as the horse will be greatly weakened thereby. To prevent this waste and decay, give him every day for some time an ounce of

Observation.

Of the Strangles and Vives.

of Jesuits bark; or a strong decoction of guaiacum shavings, which hath been found extremely beneficial in restraining these glandular discharges when too liberal, and in drying up ulcers of all kinds in horses.

If a hardness remains after the sores are healed up, they may be anointed with the mercurial ointment; and, when the horse has recovered his strength, purging will be necessary.

The vives
described.

The vives or ives differs from the strangles only in this, that the swellings of the kernels under the ears of the horse (which are the parts at first chiefly affected) seldom gather, or come to matter, but by degrees perspire off, and disperse, by warm cloathing, anointing with the marsh-mallow ointment, and a moderate bleeding or two. But should the inflammation continue, notwithstanding these means, a suppuration must be promoted by the methods above recommended in the strangles.

When

When these swellings appear in an old or full-aged horse, they are signs of great malignity, and often of an inward decay, as well as forerunners of the glanders.

The mercurial ointment above mentioned, may be prepared thus: . . . A mercurial ointment.

TAKE of crude mercury, or quicksilver, one ounce; Venice turpentine half an ounce; rub together in a mortar till the globules of the quicksilver are no longer visible; then add two ounces of hogs-lard.

Some authors recommend this ointment to be used at first, in order to disperse the swellings, and prevent their coming to matter; bleeding and purging at the same time for that purpose; but as in young horses they seem to be critical, the practice by suppuration is certainly more eligible and safe; for want of properly effecting which, the humours frequently settle, or are translated to the lungs,
and

Of the Diseases of

and other bowels; or falling on the fleshy parts of the hind quarters, form deep impostumes between the muscles, which discharge such large quantities of matter, as sometimes kill the horse, and very often endanger his life.

C H A P. XI.

Of the Diseases of the EYES.

The diseases of the eye distinguished.

IN order to make the disorders of the eyes well understood, we shall consider them as arising from different causes: external injuries affecting the globe of the eye; and from internal causes affecting the humours within the globe. We shall consider also the eye as naturally weak from a bad conformation, which possibly may often be hereditary.

We shall thus be able to form a proper judgment when washes, and external applications, are really useful, and to be depended on; and when it
is

is not only absurd to apply them, but even extremely pernicious.

In all recent disorders of the eye The cure from external injuries, such as blows, of external bites, &c. attended with a swelling of injuries. the lid, and a running from the eye, you must first sponge the part often with cold spring water and vinegar; and if much swelled bleed immediately, and apply over it a poultice made of the pulps of roasted or boiled apples, cleared from their seeds and husks; or of conserve of roses and vinegar, with a little bole, and the white of an egg. When the swelling is abated, either of the following washes will compleat the cure.

TAKE white vitriol half an ounce, A cooling sugar of lead two drams, dissolve eye-water. in a pint of spring water: to which may occasionally be added, when the rheum is very great, and inflammation removed, half an ounce of tully, or compound powder of ceruss.

Let

Let the eye and eye-lid be bathed three or four times a day with a clean sponge dipped in this wash; or it may be applied with a feather, leaving a few drops on the eye. When the veins under the eye have been turgid, opening them with a lancet, has often been found successful.

Mr. Gibson from his own experience recommends the following, with which alone he has succeeded in most common cases.

Another
repelling
eye water.

TAKE two drams of rose buds, infuse them in half a pint of boiling water; when cold, pour off the infusion, and add to it twenty grains of sugar of lead.

This is to be used as the former; but I think the quantity of sugar of lead too small, and may occasionally be increased.

Extraor-
dinary
symptoms.

Sometimes from the violence of the inflammation, succeeding blows, and external injuries, the coats of the
eye

eye shall lose their transparency, thicken and turn white, or pearl-colour; in the latter case the horse has some glimmering of light; in the former he is blind, while the eye continues in this state.

This appearance may arise from a stagnation of the lymph, or juices circulating in the cornea, which in their natural state are clear and thin, but undergo this change by the heat and inflammation: a white blister often forms on the cornea, the size sometimes of a grape; this always proves a relief, and when it breaks, hastens the cure. How caused.

In all these disorders, the degree of inflammation and obstruction is chiefly to be attended to, which must regulate the preceeding remedies in regard to their strength, so as to proportion them to the exigency of symptoms.

If the horse be fleshy and of a gross constitution, bleeding may be repeated; and a rowel will be necessary: The cure of inflammations.
let

let his diet be scalded bran or barley; avoiding for some days oats, beans, or any thing hard to chew.

The cooling opening drink, p. 33. should be given every other day, which will answer better than aloetic purges.

If the eye-lids continue swelled and moist, and the under side of the eye inflamed, an ounce of honey may be added to four ounces of the above waters; or the part may be well bathed with an ounce of honey of roses, and half a dram of sugar of lead, dissolved in three ounces of spring water: to which may be added, when the eye is very watry, a spoonful or two of red wine, which will help to thicken the matter and dry it up.

A film,
how re-
moved.

If a film, or thick slough should remain, it may be taken off, by blowing into the eye equal parts of white vitriol and sugar candy, finely powdered.

the EYES,

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Glass finely powdered, mixed up with honey and a little fresh butter is much recommended by Dr. Bracken for this purpose; as also the following ointment.

TAKE ointment of tutty one ounce, honey of roses two drams, white vitriol burnt one scruple: this with a feather may be smear'd over the eye twice a day.

An ointment for films on the eye.

The aq. sapphirina and the juice of celandine are recommended also for this purpose, a few drops of either being put on the eye every day. For the same purpose, as also for bruises and other disorders of the eye, the following will be found useful.

TAKE eye-bright and celandine of each two handfuls, rosemary tops half an handful, rosin half an ounce, chop the herbs and boil them over a gentle fire in three pints of cream, till it comes to a green oil, then strain through

An ointment for bruises, &c.

Of the Diseases of

a fine cloth, and keep in a gally-pot for use.

The quantity of a small bean may be put in the horses eye, night and morning.

The next is the famous ointment of Sir *Hans Sloane*, where I have only taken the liberty to double the quantity of aloes.

Sir *Hans*
Sloane's
ointment.

TAKE of prepared tutty one ounce, of lapis hæmatis prepared two scruples, of the best aloes twenty-four grains, of prepared pearl four grains; put into a marble mortar, and mix with a sufficient quantity of vipers fat.

Some ob-
servations
on it.

This medicine, like other nostrums, was in great esteem while it remained a secret; but since the discovery of it, and an examination of the composition, it appears to vary in nothing from the common practice, except in the substitution of the vipers fat, for lard, or fresh butter. It ought also to be remarked in Sir *Hans's* account,

account, that in the application, he calls to his assistance all the means, medical practice has hitherto employed in cases of this kind; as bleeding, cupping, blistering, issues, alteratives, &c.—So that either some of these methods must do very little, proportionably to the trouble they give, or his medicine less, to render both necessary. This form may however be preferable to washes, or eye-waters, as it will remain longer on the parts affected.

Let it be remembered, that it has long been observed in practice, that the eye in its first state of inflammation is so very tender, that eye waters prepared with tutty, and other powders aggravate the disorder; consequently during this state, the tinctures of vegetables, and solutions of salts are greatly preferable.

Wounds of the eye may be dressed with honey of roses alone, or with a little sugar of lead mixed with it, adding thereto, after a few days, an eighth part of tincture of myrrh; all

Proper
cautions.

Wounds
of the
eye how
treated.

Of the Diseases of

the preceeding directions in regard to inflammation being attended to, especially bleeding, rowels, and gentle cooling physick.

Observation.

When the humours of the eye are thickened, and the disorder is within the globe, sharp external applications are not only useless, but extremely detrimental, by the irritation they occasion, and consequently should be avoided.

In all cases of this sort, whether moon eyes, which are only cataracts forming, or in confirmed ones attended with a weeping; general evacuations, with internal alteratives, can only take place. Let us describe these internal disorders with their symptoms

The symptoms of moon eyes, and cataracts.

These generally make their appearance, when a horse is turned five, coming six; at which time one eye becomes clouded, the eye-lids being swelled, and very often shut up; and a thin water generally runs from the diseased eye down the cheek, so sharp

as sometimes to excoriate the skin; the veins of the temple, under the eye, and along the nose, are turgid and full: though sometimes it happens that the eye runs but little.

This disorder comes and goes till the cataract is ripe; then all pain and running disappears, which is generally in two years. During this time some horses have more frequent returns than others; which continue in some a week or more, in others three or four; returning once in two or three months, and they are seldom so long as five without a relapse.

There is another kind of moon ^{A dry cataract} blindness, which is the forerunner of described, cataracts, where no humour or weeping attends. The eye is never shut up or closed here, but will now and then look thick and troubled, at which time the horse sees nothing distinctly: when the eyes appear sunk and perishing, the cataracts are longer coming to maturity; and it is not unusual in this case for one eye to escape.

The general event.

These cases generally end in blindness of one, if not of both eyes; the most promising signs of recovery are when the attacks come more seldom, and their continuance grows shorter, and that they leave the cornea clear and transparent, and the globe plump and full.

The cure of cataracts.

The attempts to cure cataracts have hitherto been only palliative and mitigating the symptoms; yet early care has sometimes been successful. To this end the horse should be rowel'd and bled at proper intervals; except where the eyes appear sunk and perishing, where it is often pernicious. During the violence of the symptoms, observe the cooling treatment above recommended, giving him two ounces of nitre every day mixed into a ball with honey, and bathe the parts above the eye with verjuice, or vinegar, wherein rose-leaves are infused.

Mercurials recommended.

In order to prevent a relapse, and open the vessels of the cristalline humour (which in this case is always found

found opake, and when the cataract is confirmed, intirely loses its transparency) and hinder as much as possible the forming of obstructions, mercurials are chiefly to be depended on: thus give every other day for three or four mornings two drams of calomel, mixed up with conserve of roses; and then purge off with the common ball.

During this course particular care should be taken of the horse: after repeating this, the alterative powders with cinnabar and guaiacum, p. 195. should be given, for some weeks or months, if you expect any benefit from them; or they may be beat up into a ball with live millepedes, and an ounce and half given every day: if these should not succeed, and the horse is a valuable one, the turbith course recommended in the chapter on alteratives, seems to be the most promising method left. But to horses that are not so, a strong decoction of guaiacum, shavings may be given for some time, to which crude antimony may be added in the following manner.

The alteratives that are to be depended on.

TAKE

An altera-
tive drink.

TAKE guaiacum shavings one pound, crude antimony tied in a rag, the same quantity; boil in two gallons of forge-water to one, and give a quart a day, either alone, or mixed with his water.

Dr. *Bracken* advises as much as will lie on a Six-pence, of the following powder, to be blown up the horse's nostrils once a day,

A Stimu-
lating
snuff.

TAKE turpeth mineral two drams, assarabacca powdered, half an ounce; mix, and keep in a bottle well corked.

Tying up the temporal arteries is by some much commended, especially in full eyes; for by this means the circulation of the blood to them, is greatly impeded: but to flat depressed eyes this operation must be injurious, as it would deprive them of their necessary nourishment, and tying up the veins would seem here the most proper.

The

Of the GLANDERS. 119

The *Humor* is a Swelling and Spongi-
ness that grows in the inner corner of
the eye, so large sometimes as to cover
a part of the eye. The operation here
is easily performed by cutting part of
it away; but the Farriers are apt to
cut away too much: the wound may
be dressed with honey of roses; and if
a fungus or spongy flesh arises, it
should be sprinkled with burnt allum,
or touched with blue vitriol.

The
Haws
what.

C H A P. XII.

Of the GLANDERS.

THE cause and seat of the glan-
ders has till lately been so im-
perfectly handled, and so little under-
stood, by the writers of this distemper,
that it is no wonder it should be
ranked among the *incurables*: but a
new light having been thrown on this
whole affair by the study of M. La
Fosse, the King of France's farrier,
who has been at the pains to trace out,
and

The glan-
ders, hi-
therto but
little un-
derstood.

and discover, by dissections, the source and cause of this disorder; we hope the method he has proposed, with some further experiments and improvements, will soon bring to a certainty of cure (in most cases at least) a distemper so dangerous to our horses, and that hitherto has eluded the force of art.

Before we make mention of this work, which has the approbation of the Royal Academy of Sciences, it will not be unacceptable to our readers, we apprehend, to have a more particular account of the symptoms of this disorder than M. *La Fosse* has laid down, that we may the better judge of the merit of our author and his discoveries.

The
symptoms. The matter then discharged from the nostrils of a glander'd horse, is either white, yellow, or greenish, sometimes streaked or tinged with blood; when the disease is of long standing, the matter turns blackish and becomes very fetid, and is always attended with a swelling of the kernels or glands under

Of the GLANDERS. 121

under the jaws; in every other respect the horse is generally healthy and sound, till the distemper has been of some continuance.

From these symptoms and some observations made both by *Bracken* and *Gibson*, it is plain they were not absolute strangers to the seat of this disorder, though they neglected pushing their inquiries to the fountain-head, and consequently were at a loss to know how to apply the remedy to the parts affected.

But our author, after examining by dissection the carcases of glander'd horses, and making a strict scrutiny into the state of the *viscera*, assisted for that purpose by ingenious and expert anatomists for ten years together, affirms this disease to be altogether local; and that the true seat of it is in the *pituitary* membrane, which lines the partition along the inside of the nose, the *maxillary sinusses* or cavities of the cheek-bones on each side the nose, and the frontal *sinusses* or cavities above the orbits of the eyes; that the

Dissections prove the seat of the glanders to be in the cavities of the head, and not in the viscera.

viscera,

Of the GLANDERS.

viscera, as liver, lungs, &c. Of *glanders* horses are in general exceedingly sound; and consequently that the seat of this disorder is not in these parts, as has been asserted by most authors; nor indeed is it probable it should; for how could such horses preserve their appetite, their good appearance, sleek and shining coats; in a word, all the signs of health for many years together (which many glander'd horses are known to enjoy) with such distempered bowels.

Ocular
demon-
stration
of it.

But on nicely examining the heads of such horses, he found the cavities above mentioned, more or less, filled with a viscous slimy matter, the membrane which lines both them and the nostrils inflamed, thickened, and corroded with fordid ulcers, which in some cases had eat into the bones. These *sinusses* or cavities will be better understood by referring to the annexed plate.

Some cu-
rious ob-
servations.

He observes that, when glander'd horses discharged matter from both nostrils, both sides of the membrane and

Of the GLANDERS 129⁸

and cavities were affected: but when they ran at one nostril only, that side only was found distempered.

It is a curious remark of our author, that the sublingual glands, or the kernels situated under the jaw-bone, which are always swelled in this distemper, do not discharge their lymph into the mouth, as in man, but into the nostrils; and that he constantly found their obstruction agreed with the discharge; if one gland only was affected, then the horse discharged from one nostril only; but if both were, then the discharge was from both.

He sometimes, though rarely, found the bony partition of the nose The bones sometimes rotten. carious or rotten; but that the spongy bones about this part must suffer from the acrimony of matter long pent up, is not at all to be doubted, though the more solid ones may escape.

The fear of this disorder thus discovered, our author with great ingenuity, has paved the way for the cure, The cure by trepanning. by trepanning these cavities, and taking

Of the GLANDERS.

ing out a piece of bone, By which means the parts affected may be washed with a proper injection, and in fine the ulcers deterged, healed, and dried up.

The success in regard to the operation.

This operation he has performed on three horses; two of whom discharged from one nostril only, and the third from both: the two first he trepanned on that side of the head which was affected, and to the other he performed it on both; and found that the wound and perforation filled up with good flesh in twenty-six days, and that the horses suffered no inconvenience from the operation; though after this experiment they were knocked on the head.

Why not brought to perfection in France.

The directions and orders of the civil government of France, which hinder people from keeping glander'd horses long, prevented M. *La Fosse* repeating his attempts, and pushing his experiments further; but it is to be hoped that so useful a project will be pursued to its utmost extent, as it seems so promising in the execution, and

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and is so important in its consequences, to which end we shall beg leave to animadvert on what has been said, and offer our opinion both in relation to the disease, the operation, and the manner of conducting the cure.

The original source and cause then of this disorder seems to be an inflammation of the glands and membrane that lines the nostrils and these cavities; which, if not dispersed in time, will form matter, and ulcerate and erode the bones, for want of a free discharge to unload the cavities, and of proper applications to cleanse and deterge the ulcers: violent colds, or a feverish translocation settling here, may also occasion the same complaint, and are probably the general causes.

The true cause and seat of the glanders.

There is a disorder in men, called *Oxana*, that has great similitude to this in horses, and arises often from an inflammation in the *maxillary sinusses*, or cavities in the cheek-bones, from whence ensues a collection of matter; which when the cavity is full

An analogy between the glanders and matter gathered in the cheek-bone of man.

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fall, or the head properly inclined, runs over into the nose, and would constantly discharge thence like a glander'd horse, was the head continued in the same position. The surgical cure is the taking out one or more teeth from the upper jaw, and perforating the cavity with a proper instrument, in order to make a depending orifice for the matter to flow through; and to make way for syringing the parts affected with proper injections, which in this case are thrown through the cavity into the nose.

The method of cure in both much alike.

The similarity of these two cases, with the method of cure, and the success attending the surgical treatment (which was first invented and perfected by our countrymen, *Dr. Williams* and *Couper*) undoubtedly gave the first hint for trepanning, and syringing these cavities in horses; and it is most probable, that when the operation is attempted in time, before the bones become rotten, it will be attended with equal success; but after opening the cavities, should it by probing be discovered, that the bones are in that state,

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Stage, the best way than would be to dispatch the horse, to prevent unnecessary trouble and expence.

The parts fixed on for applying the trepan, are pointed out in the plate, and the manner of sawing out the bone will easily be understood by a view of the instrument, and the explanation annexed.

The perforations being made, our next business is to prevent their filling up too fast; as it may be necessary to keep them open for some weeks before a cure can be effected; for which purpose, after the use of the injection, let the upper one be filled up with a piece of cork waxed over, and adapted exactly to it's size, the lower one may be filled up with a hollow leaden rent, and both kept on with a proper bandage.

Directions to be observed after the operation.

If this method should not prevent the granulations, or shoots of flesh, from filling up so fast as to choak up the perforation, and by that means hinder the injections passing freely; they

Caustics, and cautery may be necessary.

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they must be suppressed by rubbing with caustick medicines, or touching with the actual cautery; as may also the bony edges; which by obliging them to exfoliate or scale off, will retard the healing.

**Injecti-
ons
recom-
mended.**

The injections first made use of, should be of a deterfive nature; as a decoction of birthwort, gentian and centaury; to a quart of which, if two ounces of *Ægyptiacum* and tincture of myrrh are added, it may be as proper as any; and when the discharge is observed to abate, and the colour alter to a thick white matter, the injection may be changed for barley-water, honey of roses, and tincture of myrrh; and finally to dry up the humidities, and recover the tone of the relaxed glands, *Bates's* allum water, or a solution of colcothar, vitriol, lapis medicamentosus, or such like, in lime-water, will most probably compleat the cure,

**Internals
necessary
to com-
pleat the
cure.**

But whoever is at all acquainted with practical surgery, well knows, that without the assistance of internals, especially

Of the CHOLIC, &c. 129

especially in glandular disorders, the cure is not so easily effected, nor rendered compleat or lasting: I therefore advise a strong decoction of guaiacum chips to be given every day, to a quart or three pints, throughout the cure, and when the matter lessens, to purge at proper intervals, and put a fowel into the horse's chest, in order to divert the fluids from their old channel: if these should not succeed, mercurials may be given with the physick; and the alterative powders with lime-water may be taken for a time, if the horse is worth the expence. *Vide ch. on Alteratives.*

C H A P. XIII.

*Of the CHOLIC or GRIPES,
and Pains in the Bowels,
from sudden Accidents.*

THERE seems to be no distemper so little understood by the common farrier, as the cholic or gripes in horses, one generally remedy or method

The gripes in horses, little understood by farriers

K

130 *Of the CHOLIC, or*

thod serving them in all cases; but as this disorder may be produced by very different causes, the method of cure must also vary, otherwise the intended remedy, injudiciously applied, will not only aggravate the complaint, but make it fatal. We shall divide this disorder into three different species:

The different kinds of gripes.

The flatulent or windy, the bilious or inflammatory, and the dry gripes; each of which we shall distinguish by their different symptoms, and then point out the proper remedies.

The symptoms of wind cholic.

The flatulent, or windy cholic is thus known. The horse is often lying down, and as suddenly rising again with a spring; he strikes his belly with his hinder feet, stamps with his forefeet, and refuses his meat; when the gripes are violent, he will have convulsive twitches, his eyes be turned up, and his limbs stretched out as if dying, his ears and feet being alternately very hot and cold: he falls into profuse sweats, and then into cold damps; strives often to stale, and turns his head frequently to his flanks; he then falls down, rolls about, and often turns

ON

on his back; this last symptom proceeds from a stoppage of urine, that almost always attends this sort of cholic, which may be increased by a load of dung pressing on the neck of the bladder.

These are the general symptoms of cholic and gripes from wind, drinking cold water when hot, and when the perspirable matter is retained, or thrown on the bowels by catching cold; in all which cases they are violently distended. Cribbing horses are more particularly subject to this complaint, by reason they are constantly sucking in great quantities of air. <sup>very sub-
cholic.</sup>

The first intention is to empty the strait gut with a small hand dipt in oil, which frequently makes way for the confined wind to discharge itself; and by easing the neck of the bladder, the suppression of urine is taken off, and the horse stales and gets ease. ^{The cure;}

Farriers generally strike a fleam into the bars of a horse's mouth, which seems to be of little or no use; for

where a quantity of blood is intended to be taken away, the vessels of this part are neither large or numerous enough to furnish it; so that it is more eligible to take it from the neck vein, and is always proper in full, sanguine, plethoric, young horses.

The following ball and glyster seldom fail of giving relief in these cases.

A ball for
the strangury
in
the wind
cholic.

TAKE Strasburgh or Vepice turpentine, and juniper-berries pounded, of each half an ounce; salt-prunella, or salt-petre, an ounce; oil of juniper one dram; salt of tartar two drams: make into a ball with any syrup; it may be given whole, and washed down with a decoction of juniper berries, or a horn or two of ale.

If the horse does not break wind, or stale plentifully, he will find no relief; therefore in an hour or two give him another ball, and add to it half a dram of salt of amber; which may be repeated a third time, if found necessary. During the fit the horse may be walked
and

and trotted gently, but should by no means be harraſſed beyond his ability, or dragged about till he is jaded.

The following glyſter may be given, between the balls, or alone, and repeated occaſionally.

TAKE chamomile flowers two handfuls; anife, coriander, and fennel ſeeds, of each an ounce; long pepper half an ounce: boil in three quarts of water to two; and add Daſſy's elixir, or gin, half a pint; oil of amber half an ounce, and oil of chamomile eight ounces. A glyſter for wind.

The ſubſequent balls and drink are alſo very proper for this purpoſe, and to remove gripes occaſioned by drinking cold water when hot, or catching cold after violent exerciſe.

TAKE powder of anife, cumin, and fennel ſeeds, of each half an ounce; camphor two drams; pellitory of Spain one dram; oil of juniper fifty drops, make into A ball for wind.

Of the CHOLIC or

a ball with any syrup, and wash it down with a horn or two of ale.

Or,

A drink
for the
same.

TAKE mithridate, or Venice treacle, two ounces; Matthew's pill two drams; camphor one dram, dissolved in a little spirit of wine; powder of fresh anniseed one ounce; or the same quantity of the cordial ball: dissolve in a pint and half of ale.

Or,

Another
drink.

TAKE philonium one ounce, or an ounce and half; tincture of fenna, or Daffy's elixir, and sallad oil, of each half a pint: give warm for a drink, and repeat it if necessary.

Either of these medicines are well calculated for this purpose; but as the ingredients may not always be ready at hand, or procurable, we shall put down a couple of drinks, that have frequently on trial been found successful,

ful, and are easily prepared. It is to be observed that the horse should be well rubbed, cloathed and littered with clean straw up to his belly.

TAKE of Castile soap, or hard soap; nitre, or salt-petre, of each one ounce; juniper-berries and ginger, each half an ounce: Venice turpentine or rosin, dissolved with the yolk of an egg, six drams: mix with a pint and half of warm ale, or a decoction of juniper-berries, with a large onion boiled with them. This may be repeated twice or thrice:

Drinks for the same easily prepared.

Or,

TAKE a pint of brandy, rum, or geneva, with as much sweet oil, and give for a drink. Should this not succeed, boil an ounce of pepper or ginger, in a quart of milk; and add to it a handful of salt, and half a pint of oil: this given warm, will (according to *Burdon*) purge in two or three hours.

The

Signs of
a horse's
recovery.

The signs of a horse's recovery, are his lying quiet, without starting, or tumbling, and his gathering up his legs, and ceasing to lash out; and if he continues an hour in this quiet posture, you may conclude all danger over.

The bilious or inflammatory cholic or gripes, described.

The next species of cholic we shall describe is the bilious or inflammatory; which besides most of the preceding symptoms, is attended with a fever, great heat, panting, and dryness of the mouth; the horse also generally throws out a little loose dung, with a hot scalding water, which when it appears blackish, or of a reddish colour, and fetid smell, denotes an approaching mortification.

The cure.

In this case the horse should immediately be bled to the quantity of three quarts; and it should be repeated, if the symptoms do not abate in a few hours. The emollient glyster, with two ounces of nitre dissolved in it, should be thrown up twice a day, to cool the inflamed bowels; plenty of gum arabic water should be taken;

GRIPES, &c.

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taken; and a pint of the following drink given every two or three hours, till several loose stools are procured; and then it should be given only night and morning, till the disorder is removed.

TAKE senna three ounces, salt A cooling
of tartar half an ounce; infuse purging
in a quart of boiling water an drink.
hour or two; then strain off,
and add two ounces of lenitive
electuary, and four of Glauber
salts.

If this disorder is not removed by these means, but the inflammation and fever increase, attended with a discharge of the flesh-coloured water above described, the event will most probably be fatal: and the chief thing to be depended on now must be a strong decoction of Jesuits bark, given to the quantity of a pint every three hours, with a gill of red port wine.

A quart of the same may be used A
for a glyster, with two ounces of strengthening glyst-
Venice ter.

Venice turpentine, dissolved with the yolks of two eggs, an ounce of diascordium, and a pint of red wine, and given twice a day: if the horse recovers give two or three mild rhabarb purges.

To a horse of little value, give the following; which in these cases has been found successful.

An alterative ball.

TAKE diapente one ounce, diascordium half an ounce, myrrh in powder two drams; make it into a ball with two drams of oil of amber, to be given twice or thrice a day,

The dry gripes.

The last we shall describe is the dry gripes, or the cholic which arises often from costiveness: it is discovered by the horse's frequent and fruitless motion to dung, the blackness and hardness of the dung, the frequent and quick motion of this tail, the high colour of this urine, and his great restlessness and uneasiness.

In

In this case the strait gut should ^{The cure.} be examined and emptied with a small hand oiled properly for that purpose; the emollient oily glyster should be thrown up twice a day; and the above purging drink given, till the bowels are unloaded, and the symptoms removed.

The diet for a horse in the gripes, should be scalded bran, warm water-gruel, or white water, made by dissolving four ounces of gum arabic in a quart of water, and mixing it with his other water.

From this history, and division of ^{Some pre-} gripes and cholics, with their different ^{per cau-} treatment, it appears how absolutely ^{tions and} necessary it is they should be well ^{remarks.} understood, in order to be managed skilfully: it is plain too, that violent hot medicines should in every species of this disorder be guarded against. and given with great caution and discretion, even in the first kind of flatulent cholic, where indeed they can only be wanted; yet too often, when

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when prepared by the farriers, with oil of turpentine, geneva pepper, and brine, &c. they even increase that disorder, by stimulating the neck of the bladder too forceably; heating the blood, and inflaming the bowels, till a mortification is brought on them. These are in general the constant appearance of horses that die of this disorder, whose bowels being examined for that purpose, have been found inflamed, full of red and livid spots, sometimes quite black, crisped with extream heat, and rotten.

C H A P. XIV.

Of the Lax, and Scouring, with other Disorders of the Stomach, and Bowels.

A purging
not always
to be stop

IT is sometimes a nice matter to form a proper judgment when to controul or encourage a looseness, but these general rules may be a direction: If a healthy full horse, on taking cold, or upon hard riding, overfeeding, eating

Of the Lax and Scouring, &c. 141

eating unwholesome food, or with a slight fever, should have a moderate purging by no means think of stopping it; but rather encourage it with an open diet, and plenty of warm gruel: but if it continues long, with gripings the mucus of the bowels coming away, and the horse losing his appetite and flesh, it is then high time to give him proper medicines: if he voids great quantities of slime and greasy matter, give him the following drench, and repeat it every other day for three times.

TAKE lenitive electuary and cream of tartar, of each four ounces; yellow rosin finely powdered, one ounce; and four ounces of sweet oil: mix with a pint of water gruel. An opening drink.

The following alterative ball alone has been found successful for this purpose, when given twice a week, with scalded bran and warm gruel.

TAKE succotrine aloes half an ounce, diapente one ounce; An alterative ball.
make

Of the Lax and Scouring, &c.

make into a ball with the juice of Spanish liquorice dissolved in water, and a spoonful of oil of amber.

To this may be added two drams of myrrh, and a dram of saffron, and (where it can be afforded) half an ounce of rhubarb.

When the purging is attended with a fever, rhubarb should be first given, to the quantity of half an ounce, with an ounce and half of lenitive electuary: at night, after the working, give half an ounce or more of diascordium in a pint of red wine mull'd with cinnamon, and repeat it every day, and the rhubarb ball once in two or three.

But if the distemper increases, the horse's flanks and belly look full and distended, and he appears griped and in pain, let this glyster be given, and the quantity of diascordium increased to an ounce, in his night-drink.

TAKE

Of the Lax and Scouring, &c. 143

TAKE chamomile flowers one handful, red roses half a handful, pomegranate and balaustines, of each an ounce; boil in two quarts of water to one, strain off and dissolve in it two or three ounces of diascordium, and one of mithridate; to which may be added a pint of port wine: repeat it once a day.

If the flux continues violent, give an ounce of roach allum, with an ounce and a half of bole, twice a day; or dissolve double this quantity with two ounces of diascordium, and the cordial ball in two quarts of hartshorn drink; to which may be added a pint of port: and give the horse three or four times a day a pint of this drink.

When the discharge is attended with an acrid mucus or slime, the griping and pains are very severe; the common lining of the bowels being washed away; in this case the following glysters should frequently be injected warm.

TAKE

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TAKE of tripe-liquor or milk two quarts, oil of olives half a pint, the yolks of six eggs well broke, and two or ounces of coarse sugar.

The signs
of indigestion.

Some horses having naturally weak stomachs and bowels, throw out their aliment indigested, their dung is habitually soft, and of a pale colour, they feed poorly, and get no flesh: to remedy this complaint, give the following purge two or three times, and then the infusion to the quantity of a pint every morning.

The
Stomach
purge.

TAKE succotrine aloes six drams, rhubarb powdered three drams, myrrh and saffron each a dram: make into a ball with any syrup.

The
Stomach
drink.

TAKE zedoary, gentian, winters bark, and orange peel, of each two ounces; pomegranate bark and balauftine, of each an ounce, chamomile flowers and centaury, each a handful; cinnamon and cloves, each an ounce: infuse in a gallon of port or strong beer.

The

The bloody flux is a distemper The bloody flux described.
 horses are not very subject to; how-
 ever as it sometimes does occur, whenever blood is discharged, attend-
 ed with gripings, and great pain in the
 bowels, if the flux is not speedily re-
 strained. the horse probably may soon
 be lost; we recommend therefore the
 following glyster and drink for that
 purpose.

TAKE oak bark four ounces, A restraining glyster.
 tormentil root two ounces, burnt
 hartshorn three ounces; boil in
 three quarts of forge water to
 two: strain off, and add two
 ounces of diascordium, four
 ounces of starch, and half a
 dram of opium.

A glyster may also be prepared with
 the same quantity of fat broth, starch
 and opium, in order to plaister over
 the coats of the bowels, and abate
 their violent irritations. Also,

TAKE soft chalk two ounces, A restraining drink.
 mithridate or diascordium one
 L ounce

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ounce, powder of Indian root half a dram, liquid laudanum fifty or sixty drops; dissolve in a pint of hartshorn drink, and add to it four ounces of cinnamon water, or red wine; give it twice a day.

Gum arabic, dissolved in hartshorn drink, or in common water, should be the horse's usual drink.

A necessary observation.

It may be necessary in this place to observe, that those scourings that succeed long continued sicknesses, such as farcys, putrid fevers, or an inflamed state of blood, where proper bleedings have been neglected, in general end fatally; especially if the discharge is a fetid slime, of a dirty brown colour like brine; and the same matter runs from their noses: for in such cases the texture of the blood is dissolved, and the whole mass of fluids is become putrid, and runs off through these outlets: and as they resemble the colliquative diarrhæas that terminate consumptive cases in the human

Of the Lax and Scouring, &c. 147

human body, so like them also are they incurable.

When horses are apt to be costive, Remedies
from whatever cause it arises, gentle for costiveness in
openers should be given, such as cream of tartar, Glauber salts, and lenitive
electuary; four ounces of any two of these dissolved in warm ale, whey, or
water; given every other morning for two or three times will answer this
purpose; especially if assisted by an oily emollient glyster, prepared with
a handful of salt: scalded bran, or barley with an ounce of fenugreek,
and linseed, occasionally given, will prevent this complaint: But where
it is constitutional, and proceeds from Observa-
tion.
the power and force of digestion in the stomach and guts, as sometimes happens, and the horse is otherwise in perfect health, no inconvenience will arise from it; and it is observed that such horses are able to endure great fatigue and labour.

OF WORMS and BOTS.

The different kind of worms described.

AUTHORS have described three different sorts of worms that affect horses, viz. *Bots*, which young horses are often troubled with in the spring: the *Rotundi*, or those resembling earth-worms; and the *Asterisks*, or those about the size of the largest sewing needle, with flat heads.

Bots in the stomachs of horses described.

The bots which breed in the stomachs of horses, and are sometimes the cause of convulsions, appear to be very large maggots, composed of circular rings, with little sharp prickly feet along the sides of their bellies (like the feet of hog-lice) which by their sharpness (like the points of the finest needles) seem to be of use to fasten them to the part where they breed and draw their nourishment, and to prevent their being loosened from such adhesion, before they come to maturity. The eggs from whence these

Of WORMS *and* BOTS. 149

these bots are produced, are dispersed in clusters all round the lower orifice of the stomach, and are laid under the inner coat, or thin membrane of the stomach; so that when the animals come to form, and life, they burst through this inner coat with their breech and tail strait outwards, and their trunks so fixed into the muscular, or fleshy coat of the stomach, that it sometimes requires a good pull to disengage them: from the blood of this last coat they draw their nourishment, which they suck like so many leeches, every one ulcerating and purfing up the part where it fixes like a honey-comb; and they often make such quick havock, as to destroy the horse.

The symptoms of worms are various. The bots, that many horses are troubled with in the beginning of the summer, are always seen sticking to the strait gut, and are often thrust out with the dung, with a yellowish coloured matter like melted sulphur; they are no ways dangerous there, but are apt to make a horse restless and uneasy, and rub his breech against the

The signs
of worms

posts. The season of their coming is usually in the months of May and June, after which they are seldom to be seen, and rarely continue in any one horse above a fortnight or three weeks. Those that take their lodgment in the stomach, are extreme dangerous by causing convulsions; and are seldom discovered by any previous signs before they come to life. when they throw a horse into violent agonies. *Vide* Convulsions. The other kinds are more troublesome than dangerous; but are known by the following signs: the horse looks lean and jaded, his hair stares as if he was surfeited, and nothing he eats makes him thrive; he often strikes his hind feet against his belly, is sometimes griped but without the violent symptoms that attend a cholic or strangury; for he never rolls and tumbles, but only shews uneasiness, and generally lays himself down quietly on his belly for a little while, and then gets up and falls a feeding; but the surest sign is when he voids them with his dung.

The

OF WORMS and BOTS. 155

For the cure of bots in the stomach. The cure of bots.
 we have already taken notice to be giving calomel in large quantities, and repeating it at proper intervals; Æthiops mineral, or some of the under mentioned forms may be given afterwards.

But bots in the strait gut may be cured by giving the horse a spoonful of savin cut very small, once or twice a day in his oats or bran, moistened; and three or four cloves of garlick may be added to advantage. Give also an aloetic purge between whiles; the following stands recommended.

TAKE fine succotrine aloes ten drams; fresh jallap, one dram; A purge for worms
 aristochia, or birthwort, and myrrh powdered, of each two drams; oil of savin and amber, of each one dram; syrup of buckthorne enough to form into a ball.

But, as the source of worms in general proceeds from a vitiated appetite The general cure of worms.
 and

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and a weak digestion, recourse must first be had to mercurials, and afterwards to such things as are proper to strengthen the stomach, promote digestion and by destroying the supposed ova, prevent the regeneration of these animals. Thus, two drams of calomel may be given with half an ounce of diaphoretic, and mixed up with conserve of wormwood over night; and the next morning the above purge: this may be repeated in six or eight days. Or the following mercurial purge may be given, which will be less troublesome, and no less efficacious:

Mercurial
purges
proper.

A mercurial
ball.

TAKE crude quicksilver, seven drams; Venice turpentine, half an ounce; rub the quicksilver till no glistening appears, then add an ounce of aloes, a dram of grated ginger, thirty drops of oil of fennel, and a sufficient quantity of syrup of buckthorn to make a ball.

One of these balls may be given every six days, with the usual precautions.

OF WORMS and BOTTS. 153

caution in regard to mercurial physicks.

The various preparations of anti-

mony and mercury must be given

several weeks together, in order to get

entire riddance of these vermin. The

Aethiops mineral may be given to the

quantity of half an ounce a day; the

mercurius alkalifatus to two drams a

day, incorporated with a bit of cor-

dial ball. The cinnabar powders, as

directed in the farcy, are no less ef-

fectual; and when worms are bred

from high feeding, or unwholesome

food; rue, garlick, tansy, savin, box,

and many other simples, may be given

successfully, being for that purpose

mixed with their food; as also, cut

tobacco, from half an ounce to an

ounce a day.

As the generation of worms perhaps principally proceeds from a weak sto-

mach, and bad digestion, if the horse

be of a tender constitution, and a bad

feeder, the following bitter drink

should be given to strengthen his sto-

mach, and mend his digestion; which

will

OF WORMS and BOTTS

will prevent the formation of these animals, interposing now and then a gentle stomach purge, prepared with an ounce and half of hiers pica made up into a ball, with syrup of buck-thorn.

A stomach
drink.

T A K E gentian root, zedoary and galangals, of each two ounces; chamomile flowers, and tops of centaury, of each two handfules; Jesuits bark powdered, two ounces; filings of iron half a pound; juniper berries four ounces: infuse in three gallons of ale for a week, shaking the vessel now and then: and give a pint of this night and morning.

To answer this purpose, also, an ounce of filings of steel finely powdered, has been successfully given every day for a fortnight, or longer, in the horses corn.

C H A P.

Of the YELLOWS, &c. 199

CHAP. XVI.

Of the YELLOWS or JAUNDICE.

HORSES are frequently subject to this distemper, which is known by a dusky yellowness of the eyes; the inside of the mouth and lips the tongue and bars of the roof of the mouth, looking also yellow. The horse is dull, and refuses all manner of food; the fever is slow, yet both that and the yellowness increase together. The dung is often hard and dry, of a pale yellow, or light pale-green. His urine is commonly of a dark dirty brown colour, and when it has settled some time on the pavement, it looks red like blood. He stales with some pain and difficulty; and if the distemper is not checked soon grows delirious and frantick. The off side of the belly is sometimes hard and distended; and in old horses, when the liver has been long diseased, the cure is scarce practicable, and ends fatally with a wasting diarrhæa:

The
symptoms
of the
jaundice
described.

Of the **YELLOWS**, or

diarrhoea: but when the distemper is recent, and in young horses, there is no fear of a recovery, if the following directions are observed.

The cure.

First of all bleed plentifully; and give the laxative glyster, p. 33. as horses are apt to be very costive in this distemper: and the next day give him this purge.

A purge
for the
jaundice.

TAKE of Indian rhubarb powdered, one ounce and a half; saffron two drams, succorine aloes six drams, syrup of buckthorn a sufficient quantity.

If the rhubarb should be found too expensive, omit it, and add the same quantity of cream of tartar, and half an ounce of Castile soap, with four drams more of aloes. This may be repeated two or three times, giving intermediately the following balls and drink.

The opening
ball.

TAKE of Ethiops. mineral, half an ounce; millepedes the same quantity, Castile soap one ounce: make

J A U N D I C E.

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make into a ball, and give one every day, and wash it down with a pint of this decoction.

TAKE madder root and turmeric, The open-
ing drink
of each four ounces; burdock
root sliced half a pound; Monk's
rhubarb four ounces; liquorice
sliced two ounces: boil in a gallon
of forge water to three quarts;
strain off, and sweeten with
honey.

Balls of Castile soap and turmeric
may be given also for this purpose, to
the quantity of three or four ounces a
day; and will in most recent cases
succeed.

By these means the distemper ge- Mercuri-
als some-
times ne-
cessary.
nerally abates in a week; which may
be discovered by the alteration in the
horse's eyes and mouth; but the medi-
cines must be continued till the
yellowness is intirely removed. Should
the distemper prove obstinate, and
not submit to this treatment, you
must try more potent remedies. viz.
mercurial physick, repeated two or
three

Of the Diseases of the

three times at proper intervals, and then the following balls:

Alterative
balls for
the jaun-
dice.

TAKE salt of tartar two ounces, cinnabar of antimony four ounces, live millepedes and filings of steel of each three ounces; saffron half an ounce; Castile or Venice soap half a pound: make into balls of the size of a puller's egg with honey, and give one night and morning, with a pint of the above drink.

It will be proper on his recovery to give two or three mild purges, and if a full fat horse to put in a rowel.

C H A P. XVII.

*Of the Disorders of the Kidneys
and Bladder.*

The
symptoms
of hurts in
the kid-
neys.

THE signs of the kidneys being hurt or affected, are a weakness of the back and loins, difficulty of staling, faintness, loss of appetite, and deadness

deadness in the eyes; the urine is thick, foul, and sometimes bloody, especially after a violent strain. A horse diseased in his kidneys can seldom back, that is, move strait backwards, without pain, which is visible as often as he is put to the trial: the same thing is observable indeed in horses, whose backs have been wrung and wrenched, but with this difference, that in the latter, there is seldom any defect or alteration in the urine, except that it is higher coloured.

Bleeding is the prime remedy, and ^{The} that plentifully, in order to prevent ^{remedy.} inflammation; and the more so, if a fever attends a difficulty in staling, for then we may suspect the kidneys already inflamed. A rowel in the belly has been found useful, and the following balls may be given twice or thrice a day, with a pint of marshmallow decoction, in which half an ounce of gum arabic is dissolved, with an ounce of honey.

TAKE lucatellus balsam one ^A
ounce, sperma ceti six drams, ^{Strength-}
^{sal} ning ball.

Of the Disorders of the

sal prunellæ half an ounce; mix into a ball with honey: if the urine is bloody, add half an ounce of japan earth.

Should the fever continue, bleed largely, give emollient glysters, and the cooling opening drink, p. 33, till it abates.

If the urine passes with difficulty and pain, notwithstanding these means, give this ball, and repeat it twice or thrice a day, till the horse stales free and without pain, his urine becomes of a right consistence, and is free from any purulent settlement.

A diuretic
ball.

T A K E balsam of copivi, or Strasbourg turpentine, and Venice soap of each one ounce; nitre six drams, myrrh powdered two drams; make into a ball with honey, and wash it down with the marshmallow decoction

Observa-
tion.

But if this method should not be successful, and the urine continues turbid, grows coffee coloured or fetid,
the

Kidneys, and Bladder

the horse losing his appetite and flesh; it is a sure sign of ulceration in the kidney; which if the above remedies do not soon remove, you may depend on it the horse will go into a consumption, and is incurable.

As a suppression of urine arises sometimes from an inflammation of the kidney; so at others from a paralytic disorder, disabling them in their office of separating the urine from the blood: in the latter case the bladder is usually empty, so that a horse will make no motions to stale, and if he continues a few days in this condition, his body will swell to a great degree, breaking out in blotches all over, and death will soon close the scene.

If it arises from inflammation, bleed largely, and treat the horse as above recommended; but, if not, give stimulating glysters, and strong diureticks, such as the following balls once in four hours; for if a horse stales not in thirty hours, his danger must be great.

The cure.

M TAKE

A stimu-
lating
diuretic
ball.

TAKE juniper-berries powdered one ounce, sal prunella six drams, aetherial oil of turpentine half an ounce, camphor one dram, oil of juniper two drams; make into a ball with honey, and give after it three or four horns of the marshmallow decoction and honey.

Or,

TAKE squills powdered two or three drams, nitre half an ounce, or six drams; make into a ball with honey.

Or,

The following, which is more forcing, and should be given with caution.

Another
ball more
stimulat-
ing.

TAKE cantharides well dried, from one scruple to half a dram; camphor dissolved in oil of almonds, from one dram to two; nitre and Venice soap, of each an ounce; mix into a ball with syrup of marshmallows.

When

Kidneys and Bladder.

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When this last ball is given, the horse should be made to drink plenty of water with gum arabic dissolved in it; the following glyster may also be given at the same time.

TO TAKE of Barbadoes aloes two ounces; the same quantity of Venice turpentine beat up with the yolks of two eggs; jallap powdered two drams; juniper and bay-berries, each an handful; bruised and boiled in two quarts of a decoction of mallows; strain off and mix by degrees with the above, to which add a pint of linseed oil.

A stimulating glyster.

If the complaint is not removed by these means, rub the horse's reins well with two parts of oil of turpentine, and one of oil of amber; and apply a poultice of garlick, horse-radish, mustard seed, camphor, and green soap, spread on thick cloth, over them. Give the horse also two drams of calomel over night, and a moderate purge the next morning. These perhaps,

An embrocation and stimulating poultice.

Of the Diseases of the

are the chief and best remedies that can be given in this generally fatal disorder.

The strangury how to be treated.

When the *strangury* in a horse does not arise from wind, or dung pressing on the neck of the bladder (as we observed in the chapter of cholick) the cause is from inflammation, or too long a retention of the urine. Such horses make frequent motions to stale, stand wide and straddling, are full and have their flanks distended. In this case bleed largely; give the following drink, and repeat it every two hours, for two or three times, till the horse is relieved.

A drink for the strangury.

TAKE Venice turpentine broke with the yolk of an egg one ounce, nitre or sal prunellæ six drams, half a pint of sweet oil, and a pint of white wine.

If this drink should not have the desired effect, the diuretic ball above mentioned may be given in the same manner, omitting the myrrh.

Give

Kidneys and Bladder.

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Give the horse plenty of the marsh-mallow decoction, in a quart of which dissolve an ounce of nitre and gum arabic, and two of honey.

Horses subject to a *diabetes*, or profuse staling, if old, or of a weak constitution, are seldom cured; they soon lose their flesh and appetite, grow feeble, their coat staring, and they die rotten. Of a young horse there is more hopes; but he must not be indulged with too much water, or moist food. Give him the following:

A diabetes
how treat-
ed.

TAKE Jesuits bark four ounces, bistort and tormentil root, of each two ounces, gum arabic eight ounces: boil in two gallons of lime-water to the consumption of half, and give a pint three times a day.

A drink
for a dia-
betes.

Let the horse drink two or three quarts a day of lime-water; and if these medicines should not succeed, give a quart of strong allum posset, three or four times a day.

M 3

This

on T
amotom

This method is proper also for a horse who stales blood; or the following balls may be given for that purpose, if the bleeding is profuse.

Balls for
pissing
blood.

T A K E bole armoniac one ounce, japan earth half an ounce, rock allum two drams, elixir of ystrix one dram; make into a ball with conserve of roses, and give it every six hours.

As this disorder generally proceeds from too violent exercise, over straining, &c. repeated bleedings in small quantities are absolutely necessary, till the mouths of the vessels close up.

C H A P. XVIII.

Of Molten-Grease.

Molten-
Grease,
what.

B Y molten-grease is meant a fat or oily discharge with thickening, and arises from a colliquation or melting down of the fat of the horse's body, by violent exercise in very hot weather.

It

It is always attended with a fever, heat, restlessness, trembling and tremblings, great inward sickness, shortness of breath, and sometimes with the symptoms of a pleurisy. His dung will be extremely greasy, and he will fall into a scouring; his blood will have a thick skin of fat over it when cold, of a white or yellow hue, but chiefly the latter; the congealed part or sediment is commonly a mixture of size and grease, which makes it so extremely slippery, that it will not adhere to the fingers, and the small portion of serum feels also slippery and clammy. The horse soon loses his flesh and fat, which probably is dissolved and absorbed into the blood; and those that survive this shock, commonly grow hide-bound for a time, their legs swelling both before and behind, and continue in this state till the blood and juices are rectified, and if this is not done effectually, the farcy, or some obstinate furber, generally follows, very difficult to remove.

The
symptoms
of it.

not ill
and it is
cold

In the first place bleed plentifully, and repeat it for two or three days successively

The cure.

successively in smaller quantities: two or three rows should also be immediately put in, and the cooling emollient glysters, p. 33. daily thrown up to abate the fever, and drain off the greasy matter from the intestines. By the mouth give plenty of warm water, or gruel, with creams of tartar, or nitre, to dilate and attenuate the blood; which in this case is greatly disposed to run into grumes, and endanger a total stagnation.

When the fever is quite gone off, and the horse has recovered his appetite, gentle aloetic purges should be given once a week for a month or six weeks, in order to bring down the swelled legs; but if the purgative ingredient does not exceed half an ounce or six drams of fine aloes, it only opens the belly gently; and, with the other medicines joined with it, passes into the blood, acts as an alterative, and operates both by urine and perspiration, as will appear by the horse's staling plentifully; and the kindly feel of his skin. To this end give the following

Of Molten-Grease.

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owing, which repeated for some time, will entirely remove this disorder.

TAKE of Muccotrine aloes fix Aq altera-
tive purge.
drams, of gum guaiacum pow-
dered half an ounce, of diapho-
retic antimony, and powder of
myrrh, of each two drams; make
into a ball, with syrup of buck-
thorn.

Or it may be prepared with an
ounce of aloes, six drams of diapente,
and a spoonful of oil of amber.

These will seldom take a horse
from his business above two or three
days in a week; neither will he lose
his flesh or appetite with them; but
on the contrary, mend in both; which
cannot be obtained by any other me-
thod of purging; and give this greatly
the preference in many cases.

Two ounces of nitre mixed up into alterative
a ball with honey, and a dram of
camphor, will also be found an ex-
cellent medicine for this purpose, as
it will powerfully attenuate the blood,
and

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and promote the due secretion, which end it should be given every day for a fortnight or three weeks.

CHAP. XIX.

Of Surfeits, Mange, and Hide Bound.

Surfeits arise from various causes but are commonly the effects of some diseases not attended to, or that have been ill cured.

Surfeits
described.

A horse is said to be surfeited, when his coat stares, and looks rusty and dirty, though proper pains has not been wanting to keep him clean. The skin is full of scales and dander that lays thick and mealy among the hair, and is constantly supplied with a fresh succession of the same, for want of due transpiration. Some horses have hurdles of various sizes, like peats or mares; some have dry fixed scabs all over their limbs and bodies; others a moisture attended with heat and inflammation;

Hide-Bound, 10

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inflammation; the humours being too
thick, and violently itching, that the
horses rub so incessantly, as to make
themselves raw. Some have no eruptions
at all, but an unwholesome look,
and are dull, sluggish and lazy: some
appear only lean and hide-bound:
others have flying pains and lameness,
resembling a rheumatism: so that in
the surfeits of horses, we have almost
all the different species of the scurvy,
and other chronical distempers.

The following method is usually at-
tended with success in the dry species. The cure.
First take away about three or four
pounds of blood; and then give the
following mild purge, which will
work as an alterative, and should be
repeated once a week or ten days for
some time.

T A K E succotrine aloes six drams
or one ounce; gum guaiacum An altera-
half an ounce; diaphoretic anti- tive purge.
mony, and powder of myrrh, of
each two drams: make into a
ball with syrup of buckthorn.

In

Of Surfeits, Mange, and

In the intermediate days an ounce of the following powder should be given morning and evening in his feeds.

The
alterative
powders.

TAKE native cinnabar, or cinnabar of antimony, finely powdered, half a pound; crude antimony, in fine powder, four ounces; gum guaiacum, also in powder, four ounces: make into sixteen doses, for eight days.

This medicine must be repeated till the horse coats well, and all the symptoms of surfeit disappear. If the horse is of small value, two or three common purges should be given, and half an ounce of antimony, with the same quantity of sulphur, twice a day, or the alterative balls, with camphor and nitre, as directed in the preceeding chapter.

If the little scabs on the skin do not peel off, anoint them with the mercurial ointment; during the time of using which, it will be proper to keep the horse dry, and to give him warm

warm water. This ointment properly rubbed into the blood, with the assistance of purging physick, has frequently cured these kind of surfeits, without any other assistance.

The wet surfeit, which is no more than a moist running scurvy, appears on different parts of the body of a horse, attended sometimes with great heat and inflammation; the neck oftentimes swells so in one night's time, that great quantities of a hot briny humour issue forth, which, if not allayed, will be apt to collect on the poll or withers, and produce the poll-evil or fistula. This disease also frequently attacks the limbs, where it proves obstinate and hard to cure; and in some horses shews itself spring and fall.

The moist
surfeit is
surfeit

In this case bleed plentifully, avoid The cure.
externally all repellers; and give cooling physick twice a week; as, four ounces of lenitive electuary, with the same quantity of cream of tartar; or the latter, with four ounces of Glauber salts, quickened, if thought proper, with

Of Subseits, Mange, and

Wounds, or three drams of powder of
gillap, dissolved in water gruel, and
given in a morning fasting.

After three or four of these purges,
two ounces of nitre made into a ball
with honey, may be given every morn-
ing for a fortnight: and if intended
with success, repeated for a fortnight
longer.

The powder above mentioned may
also be given with the horse's corns,
or a strong decoction of guaiacum
shavings, or logwood may be given
alone to the quantity of two quarts a
day. These, and indeed all other
medicines, must be continued for a
long time, where the disorder proves
obstinate.

Hide
Bound,
How
treated.

The diet should be cool and open-
ing, as scalded bran or barley; and if
the horse is hide-bound, an ounce of
sennae seeds should be given in his
food for a month or longer; and as
this disorder often proceeds from
worms, give the mercurial physick
too, and afterwards the cinna-
mon powders,

possibly, as above directed; but as in general it is not an original disease, but a symptom only of many, in the cure, regard must be had to the first cause: thus as it is an attendant on furfets, fevers, worms, &c. the removal of this complaint must be seriously effected.

In a mangy horse the skin is generally tawny, thick, and full of wrinkles, especially about the mane; the loins and tail; and the little hair that remains in those parts stands almost always straight out or bristly: the ears are commonly naked and without hair, the eyes and eye-brows the same; and when it affects the limbs, it gives them the same aspect; yet the skin is not raw, nor peels off, as in the hot inflamed furfet.

The mange described.

Where this distemper is caught by infection, if taken in time it is very easily cured, and I would recommend a sulphur ointment as most effectual for that purpose, rubbed in every day. To purify and cleanse the blood, give nitimony and sulphur for some weeks after

after. There are a great variety of external remedies for this purpose, such as train oil and gun-powder, tobacco steeped in chamber-lye, &c. But, when this disorder is contracted by low feeding and poverty of blood, the diet must be mended, and the horse properly indulged with hay and corn. The following ointments are effectually used for this disorder, rubbed into the parts affected every day.

Ointments
for the
mange.

T A K E powdered brimstone, train oil, and tar, of each equal quantities; to which may be added ginger or white hellebore,

Or,

T A K E sulphur vivum half a pound; crude sal armoniac one ounce, hogs lard, or oil a sufficient quantity to form into an ointment.

To these, occasionally *may* be added, a third part of mercurial ointment; but as sulphur is in general allowed, to be the *specific* in the *Itch*; and being found both more safe, and efficacious than

than mercury; so we apprehend it will sufficiently answer the purpose here; for as this disorder seems best accounted for by *Lecuwenbork*, from certain small insects he discovered in the pustles, by the microscope; so it seems as if they were destroyed, by the steams of brimstone, tho' only raised by the heat of the body; for in the human body, the itch may be cured by partial sulphurous unctions, on the legs only; but where the mange proves obstinate in horses, let the parts be washed with the sublimate water in p. 226. before the application of the ointment, and subjoin the internal use of sulphur, in order to diffuse the steams more certainly through the skin; there being reason to believe, as in the itch, that the animalcula may sometimes lie too deep, to be thoroughly destroyed by external applications only.

C H A P. XVII.

Of the FARCIN or
FARCY.

The farcy
described.

THE true farcy is properly a distemper of the blood vessels, which generally follows the tract of the veins, and when inveterate, thickens their coats and integuments, so that they become like so many chords. I shall not describe the different sorts of farcys, seeing they are only degrees of one and the same distemper; but proceed to paint the distemper by its symptoms, which are pretty manifest to the eye.

The
symptoms

At first one or more small swellings, or round buds like grapes or berries, spring out over the veins, and are often exquisitely painful to the touch; in the beginning they are hard, but soon turn into soft blisters, which, when broke, discharge an oily or bloody ichor, and turn into very foul and ill disposed ulcers. In some horses it appears

appears on the head only; in some on the external jugular; in others on the plate vein, and runs downwards on the inside of the fore-arm towards the knee, and very often upwards towards the brisket; in some the farcy shews itself on the hind parts, about the pasterns; and along the large veins on the inside of the thigh, rising upwards into the groin, and towards the sheath; and sometimes the farcy makes its appearance on the flanks, and spreads by degrees towards the lower belly, where it often becomes very troublesome.

When the farcy appears on the head only, it is easily cured; especially when it is seated in the cheeks and forehead, the blood vessels being here small: but it is more difficult when it affects the lips, the nostrils, the eyes, and kernels under the jaws, and other soft and loose parts, especially if the neck vein becomes chorded. When it begins on the outside of the shoulder or hips, the cure is seldom difficult; but when the farcy arises on the plate vein,

When most favourable.

vein, and that vein swells much, and turns chorded, and the glands or kernels under the arm-pit are affected, it is hard to cure; but more so when the crural veins within side of the thigh are chorded, and beset with buds, which affect the kernels of the groin, and the cavernous body of the yard. When the farcy begins on the pasterns or lower limbs, it often becomes very uncertain, unless a timely stop be put to it; for the swelling in those dependant parts grow so excessively large in some constitutions, and the limbs so much disfigured thereby with foul sores and callous ulcerations, that such a horse is seldom fit for any thing afterwards, but the meanest drudgery: but it is always a promising sign, wherever the farcy happens to be situate, if it spreads no further. It is usual to affect only one side at a time, but when it passes over to the other, it shews great malignancy; when it arises on the spines, it is then for the most part dangerous, and is always more so to horses that are fat, and full of blood, than to those that are in more moderate case. When the farcy

When malignant.

farcy is epidermical, as sometimes happens, it rises on several parts of the body at once, forms nasty foul ulcers, and makes a profuse running of greenish bloody matter from both nostrils; and soon ends in a miserable rot.

From this description of the farcy it will appear how greatly those may be disappointed who depend on some single specific drink or ball for a certain cure; for the symptoms are sometimes so favourable, that it is easily conquered by a very simple management; and when it arises superficially upon the smaller vessels, it will often go off, with moderate labour without any other means than bleeding. Such instances as these may easily give a reputation to things of no great efficacy, and bring them into esteem: but whoever has acquired any true notion of the farcy, will know that this distemper is not to be conquered but by such things as are fitly adapted to the various symptoms that occur in the different stages of it. To avoid therefore the perplexity that arises from the

General
specifics
of little
use.

the various complications so usual in the farcy, we shall consider it in its different states, or degrees. *viz.* when it seizes only the smaller vessels; when the larger veins are chorded, and the feet, pasterns, and flanks affected; and lastly, when the farcy beginning on one side only breaks out on the other also, and affects the whole body.

The first
stage of
the farcy.

When the farcy makes its first appearance on the head, it rises on the cheeks and temples, and looks like a net-work, or small creeping twigs full of berries. Sometimes it inflames the eye, and sometimes little blisters or buds run along the side of the nose. It arises often on the outside of the shoulder, running along the small veins with heat and inflammation: and sometimes a few small buds appear near the withers, and on the outside of the hip. In all these appearances the disease being superficial, and affecting only the smaller vessels is easily conquered by the following method, when taken in time; for the simplest farcy, if neglected may degenerate into the worst sort,

This

This distemper then being of an inflammatory nature, and in a particular manner affecting the blood vessels, must necessarily require large bleeding, particularly where the horse happens to be fat and full of blood. This always checks the beginning of a farcy, but is of small service afterwards; and if a horse is low in flesh, the loss of too much blood sometimes proves injurious. After bleeding, let the horse have four ounces of cream of tartar and lenitive electuary; which may be given every other day for a week, to cool the blood, and open the body; and then give nitre three ounces a day, for three weeks or a month; and anoint the buds and swellings with the following ointment twice a day.

Bleeding almost always necessary.

TAKE ointment of elder four ounces, oil of turpentine two ounces, sugar of lead half an ounce, white vitriol powdered two drams; mix together in a gally-pot.

An ointment for the buds.

The

The buds sometimes by this method are dispersed, leaving only little bald spots, which the hair soon covers again. When they break and run, if the matter be thick and well digested, they will soon be well: but in order to confirm the cure, and to disperse some little lumps, which often remain for some time on the skin without hair, give the liver of antimony for a month; two ounces a day for a fortnight, and then one a day for the other fortnight; by following this method, a farcy which affects only the small vessels, may be stopped in a week or ten days, and soon after totally eradicated.

When the larger veins are affected, the cure is more difficult.

When the farcin affects the larger blood vessels, the cure is more difficult; but let it always be attempted early: therefore on the plate, thigh or neck veins appearing chorded, bleed immediately on the opposite side; and apply the following to the chorded vein.

A liniment to anoint the chorded veins.

TAKE oil of turpentine in a pint bottle six ounces, oil of vitriol three

three ounces; drop the oil of vitriol into the oil of turpentine by little at a time, otherwise the bottle will burst; when it has done smoaking, drop in more oil of vitriol, and so on till all is mixed.

This mixture is one of the best universals in a beginning farcy; but where it is seated in loose fleshy parts, as flanks or belly, equal parts of the oil of vitriol and turpentine are necessary.

Rub the parts first with a woollen cloth; and then apply some of the mixture over the buds, and wherever there is any swelling, twice a day. Give the cooling physick every other day; and then three ounces of nitre every day for some time. This method must be continued till the buds digest, and the chord dissolves; and when the sores run plentifully, the matter digests well, and the lips and edges are no ways thick or callous, you may expect a speedy recovery; yet to confirm the cure, and prevent a relapse, give the liver of antimony

or

186 *Of the F A R C I N, or*

or crude antimony, as above directed;
and to heal the sores and smooth the
skin, dress with bees-wax and oil.

The farcy
on the
flank, dif-
ficult of
cure.

When the farcy begins on the flanks,
or towards the lower belly, it often
takes its rise from a single puncture of
a sharp spur. The pain and smarting
is one sure sign to distinguish the farcy
from common accidents: the staring
of the hair which stands up like a
tuft all round the buds or blisters,
and the matter that issues from the
buds, which is always purulent and
of a clammy greasy consistence, are
other certain signs. After bathing with
the mixture above mentioned till the
ulcers are smooth and healing, should
the swelling not subside, to prevent
the spreading of the buds, and to
disperse them, bathe with either of
these mixtures as far as the centre of
the belly; and at the same time give a
course of antimonials, as will presently
be prescribed.

Discontent
and re-
pelling
wash:

TAKE spirits of wine four ounces,
oil of vitriol and turpentine of
each

each two ounces, white wine vinegar or verjuice six ounces.

Or, the following :

TAKE spirits of wine rectified four ounces, camphor half an ounce, vinegar or verjuice six ounces, white vitriol dissolved in four ounces of spring water one ounce; mix together.

In the lower limbs the farcy lies sometime concealed for a great while, and makes so slow a progress, that it is often mistaken for greafe, or for a blow or kick, and goes by the general appellation of a humour settled there. In order to distinguish the one from the other, we shall observe that a kick, or bruise, is generally attended with a sudden swelling, or a confused wound, which for the most part digests easily: The greafe is also a smooth swelling that breaks out above the bending of the pasterns backwards; but the farcy begins on the pastern joint usually with one bud, and runs upwards like a knotty crab-tree.

The farcy
how dis-
tinguished
from the
greafe.

Very

The general method
of cure.

Very simple means has sometimes stopped it, before it has began to spread; a poultice with bran and verjuice bound round the part, and renewed once a day, will often alone succeed; and if proud flesh should arise, touch it with oil of vitriol, or aqua fortis, and hour before you apply the poultice, for when the distemper is local, as we suppose it here, it is to be conquered by outward applications.

When the distemper grows inveterate, and resists the above methods, and the vessels continue choaked, *Gibson* recommends the following mixture.

A mixture
for an inveterate
farcy.

TAKE linseed oil half a pint; oil of turpentine and petre, of each three ounces; tincture of euphorium and hellebore, of each two drams; the soldiers ointment two ounces, or oil of bay, oil of origanum half an ounce, double aqua fortis half an ounce: after the ebullition is over, add two ounces of Barbadoes tar.

Rub

Rub this into the chorded veins, and wherever there is a swelling, once in two or three days; but if the orifices are choaked up with proud flesh, or the skin so much thickened over the ulcers as to confine the matter, in either case it is necessary to make an open passage with a small hot iron, and destroy the proud flesh, after which it may be kept down by touching with oil of vitriol, aqua fortis, or butter of antimony. A salve may also be prepared with quicksilver and aqua fortis, rubbing any quantity of the former with enough of the latter, to the consistence of a liniment; smear the ulcers with this whenever they appear foul, and you will find it preferable to most other eating medicines.

How the buds should be dressed.

Our farriers after opening the buds, put in usually a small quantity of corrosive sublimate or arsenic, which they call coring out the farcy: this may answer where the buds are few, and not situated near large blood vessels, joints or tendons. Others use Roman vitriol, or sublimate and vitriol, in equal

Cautions in regard to the use of sublim.

equal quantities; but let it be remembered, that many a horse has been poisoned by these medicines signifi-
cantly used, and in too large quantities; which should be a caution to hunters not to suffer their hounds to feed on the carcases of farcy'd hollies, as the greatest part of a pack have been poisoned by that means.

Very desperate methods used in the cure of the farcy.

I shall now mention some of the desperate methods, and most violent kind of medicines given by some internally: thus, from four to eight ounces of lapis calaminaris, to which two ounces of tutty finely powdered is added, with other metallic substances, have been given. Some give a pound of barrel soap boiled in hogs beer, with saffron, rue, and other herbs of that intention: Others go yet further, being determined to kill or cure, by giving drinks prepared with green vitriol, rock allum, Roman vitriol, oil of vitriol, boiled in chamberlye, with hemp seed, henbane, and common salt. Those who use nothing but the decoctions or juices of herbs, such as wormwood, rue, or elder particularly,

icularly, stand a much better chance for a cure, if given in time; but when the distemper is grown inveterate, nothing comes in competition with mercurial and antimonial medicines,

The following balls are proper in every state of the farcy; and when the distemper has been in its infancy, before the skin was much defaced, has often cured it in a week or two, by giving them only once or twice a day; but in an old farcy they should be given for two or three months together.

T A K E of native cinnabar, or cinnabar of antimony eight ounces; long birthwort and gum guaiacum powdered of each four ounces: make into a paste with honey, and form into balls of the size of a large walnut, and roll them into liquorice-powder.

The alterative balls.

The tediousness of this course has encouraged the giving of mercurials; and indeed where they are directed with skill, they must be attended with

success;

Mercurials generally successful, when given with skill.

success; the stronger preparations, as the red and white precipitates, and turbith, being combined with sharp saline parts may be hazardous and injurious, but the latter given in small quantities have been found very successful in such kind of inveterate disorders. Mr. *Gibson* says, he has given it to a dram at a dose, where the limbs have been greatly swelled; that in forty eight hours the sores were all dried up, and the limbs reduced; but that it made the horse so violently sick for several days, and scoured him to such a degree, that it could not be repeated.

Turbeth
should be
given in
small
quantities
at a time.

One would have thought that the success attending this medicine so suddenly might have encouraged *Gibson* to have made further trials in smaller quantities, which had he done, it is more than probable he would not have been disappointed: for the grand secret in giving mercurials as alteratives, is the introducing them into the blood without operating on the stomach and bowels; and to do this effectually, they must be given in small quantities,
and

and so bridled, as to controul their force on the first passages; taken in this manner, they will mix gradually with the blood and juices, and operate both effectually and safely. The method I would recommend is as follows: give one scruple or half a dram of tur-
 bith, mixed into a ball with an ounce of Venice soap, every other night for a fortnight, then abstain a week or ten days, and repeat it again. Should this ball purge, or make the horse sick, mix it up with two drams of philonium, or with four or five grains of opium, or camphor; with these restrictions it may be given for some weeks; but should the horse's mouth be found tender or sore, you must refrain giving, till that complaint is removed by gentle purges; and then return to it again in smaller quantities; for as the effects of mercurials, are very different in the different constitutions, both of horses, as well as men; so the quantity must be varied, in proportion to the operation which is not intended here to be sensible, but to work imperceptible on the blood and juices, correcting them as

Balls with
 turbeth re-
 commend-
 ed.

Of the F A R C I N, or

a powerful alterative: during the whole course, particular care should be taken that he gets no cold. *Wide Chap.*
ALTERATIVE.

An altera-
tive mer-
curial ball.

Two ounces of quicksilver divided with an ounce of turpentine, and made up into four balls, with diapente and gum guaiacum, of each two ounces, and a sufficient quantity of honey, have for this purpose been successfully given, one ball twice a week; but gentle purgatives should be interposed, to prevent a salivation, which some horses are very prone to, on taking mercurials, though in small quantities.

Dr. *Bracken* recommends the knots and chords to be rubbed with the mercurial ointment before they break, in order to disperse them, and after breaking to dress the sores with equal parts of Venice turpentine and quicksilver; if by these means the mouth should become sore, treat as above.— This method seems to be effectual with proper care.

The

The following is also recommended
by the same gentleman :

TAKE butter of antimony and An altera-
tive ball
bezoar mineral, of each one
ounce ; beat up with half a pound
of cordial ball, and give the big-
ness of a walnut, or three quarters
of an ounce, every day for two
or three weeks, fasting two or
three hours after it.

As most preparations from antimo-
ny are of use, in the farcy, from two
drams of antihecticum poterii to half
an ounce, may be given with a bit of
cordial ball, every other day, for some
time ; for in these obstinate cases the
very crasis of the blood must be altered,
which can only be effected by degrees,
and of course is a work of time.

We shall here take notice of what The water
farcy, or
dropfy.
is called the water farcy, which has no
resemblance to a true farcy, either in
its cause, symptoms or effects, but
has only obtained this name through
custom and ignorance.

The
dropfy of
two kinds.

This water farcy then is of two kinds; one the product of a feverish disposition, terminating on the skin as often happens in epidemical colds; the other is dropfical, where the water is not confined to the belly and limbs, but shews itself in several parts of the body, by soft swellings yielding to the pressure of the finger. This last kind usually proceeds from foul feeding, or from the latter grass and fog, that often comes up in great plenty with continued cold rains, and breeds a sluggish viscid blood. In the former case I have seen the limbs and whole body enormously swelled and very hard, the belly and sheath greatly distended; which were as surprizingly reduced in four and twenty hours by slight scarifications within side the leg and thigh with a sharp penknife, and three or four strokes on the skin of the belly on each side the sheath; from these scarifications there was a constant and surprising large dripping of water, which soon relieved the horse; when a few proper purges compleated his recovery.

Scarifying
the skin,
sometimes
very effec-
tual.

In

In the other species of dropfy the curative intentions are to discharge the water, recover the crasis or strength of the blood, and brace up the relaxed fibres throughout the whole body. To this end, purge once a week or ten days; and give intermediately either of the following drinks, or balls.

The general cure of dropfical disorders.

T A K E black hellebore fresh gathered two pounds; wash, bruise and boil in six quarts of water to four, then strain out the liquor, and put two quarts of white wine on the remaining hellebore, and let it infuse warm forty eight hours, then strain off, mix both together, and give the horse a pint night and morning.

An alterative drink.

T A K E nitre two ounces, squills powdered three drams or half an ounce, camphor one dram, honey enough to form into a ball to be given once a day alone, or wash'd down with a horn or two of the above drink.

The diuretic balls.

TAKE

198 *Of the FARCIN, or*

A diuretic
drink.

TAKE of the leaves and bark of elder, of each a large handful; chamomile flowers half an handful, juniper berries bruised two ounces; boil in a quart of water to a pint and a half, to which add honey and nitre, of each one ounce.

Give this drink every night, or night and morning: and to compleat the cure, and strengthen the whole body, give a pint of the subsequent infusion every night and morning for a fortnight, fasting two hours after it.

A
strengthening
drink

TAKE gentian root and zedoary of each four ounces; chamomile flowers and the tops of centaury, of each two handfuls; Jesuits bark powdered two ounces; juniper berries four ounces; filings of iron half a pound: infuse in two gallons of ale for a week, shaking now and then the vessel.

Before we close this chapter, we think proper to lay down the symptoms

toms of an incurable farcy, that the owners of such horses may save themselves unnecessary expence and trouble in their endeavours to obtain a cure.

When a farcy by improper applications, or by neglect has spread and increased; or after long continuance resisted the medicines above recommended; if fresh buds are continually sprouting forth, while the old ones remain foul and ill conditioned: if they rise on the spines of the back and loins; if the horse grows hide-bound, and runs at the nose; if abscesses are formed in the fleshy parts between the interstices of the large muscles; if his eyes look dead and lifeless; if he forsakes his food, and scours often, and his excrements appear thin and of a blackish colour; if the plate, or thigh vein continue large and chorded after firing, and other proper applications: these symptoms denote the distemper to have penetrated internally, and that it will degenerate into an incurable consumption: it is most probable also, that the whole mass
of

The
symptoms
of an in-
curable
farcy.

of fluids are tainted, and become irremediable by art.

C H A P. XXI.

Of Alterative Medicines.

What is
meant by
alterative
medicines.

BY alteratives, or *altering* medicines are to be understood such as having no immediate sensible operation, gradually gain upon the constitution, by changing the humours or juices from a state of distemperature to health. This intention in some cases may perhaps be effected by correcting the acrimony of the juices, and accelerating the blood's motion; and in others by attenuating, or breaking its particles, and dividing those cohesions which obstruct the capillaries, or finer vessels; and so promote the due secretions of the various fluids. It is certain that many have but an indifferent opinion of a medicine, that does not operate externally, and gratify their senses with a quantity of imagined *humours* ejected from the body: but let such people remember that there
are

Of Alterative Medicines: 201

are good humours as well as bad, which are thrown off together; that no evacuating medicine has a power of selecting, or separating the bad from the good; and consequently that they are thrown out only in a proportionate quantity. These few hints may be sufficient to convince the judicious reader of the great advantages arising from alteratives, and the preference due to them, in most cases over purgatives; unless it could be proved, as already mentioned, that the latter could cull out, and separate from the blood the bad humours solely, leaving the good behind; but this elective power has long been justly exploded as ridiculous and uncertain, since it is plain that all kinds of purging medicines differ only in degree of strength, and operate no otherwise upon different humours, than as they stimulate more or less.

Are often
to be pre-
ferred to
purgas.

We shall therefore take this opportunity of recommending some alterative medicines, which are not so generally known as they ought to be; and that too on the surest grounds, a proper

Nitre re-
commend-
ed as an
alterative.

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proper experience of their good effects in repeated trials. The first then is nitre or purified salt petre, which has long been in great esteem, and perhaps is more to be depended on in all inflammatory fevers than any other medicine whatever: but besides this extensive power of allaying inflammatory disorders, it is now offered as a remedy, taken in proper quantities, as an alterative for surfeits, molten-grease, hide-bound, grease-heels, &c. And as it has been known to succeed even in the cure of the farcy, what other distempers in horses, arising from vitiated fluids may it not be tried on, with a strong probability of success? This great advantage will arise from the use of this medicine over most others, that as its operation is chiefly by urine, it requires no confinement or cloathing; but the horse may be worked moderately throughout the whole course. This medicine has been found equally efficacious (by many trials made in one of our hospitals) in correcting the acrimony of the juices, and disposing the most obstinate and inveterate sores to heal up; and hence probably it came recom-

recommended as an alterative to our horses.

One of our greatest physical writers, Observations on nitre, is very copious in the praise of this medicine, and my Lord *Bacon* had so high an opinion of it, that he believed it would prolong life; 'tis very certain, that it is a great resister of putrifaction, which our very cooks are no strangers to; if then it will preserve the flesh of dead animals, why not the blood and juices of living ones? That it renders them more fluid, may be proved, by mixing a solution of it, with blood fresh drawn, which will not only prevent the coagulation, but change its very colour from a dark black, to an elegant florid red, and preserve it so for some time: *Malpighius* has informed us that he injected it into the very blood vessels of a dog, where it intimately mixed with the blood without any detriment, or remarkable alteration, except a more copious discharge of urine, its power also of destroying worms is very remarkable: in short a more useful medicine perhaps scarce exists,

exists, and there is no doubt to be made, when it comes into more general use, its own merit, and good effects will sufficiently recommend itself. We should not have presumed to say so much in its favour, were we not thoroughly convinced of its great utility, and believe it to be in many cases, one of the best, and safest *alteratives* we have. We have already taken notice of its great efficacy in removing fevers, and think that in the beginning of colds, (which are the forerunners of fevers) was this medicine given early, instead of pectoral drinks, or the usual balls, those complaints would be much sooner removed, without incurring any danger of the distemper's settling on the lungs, which the tampering too long with those sort of medicines, too often lays a foundation for: We must confess it would be a difficult undertaking, to persuade most farriers, that their healing drinks, or horse balls, are very improper on these occasions, but more especially when given at first; but gentlemen will readily perceive the force of reason, when they find that the
inten-

intention here aimed at, is to cool and attenuate in general, the whole mass of fluids; by which method, the blood which is now become too thick to circulate freely, through the small vessels of the lungs, (and is the original cause both of the cough, stuffing up, and laborious breathing) is rendered sufficiently fluid for that purpose, by the use of this medicine; as all the secretions are promoted by it, at the same time.

The quantity of nitre given at a time should be from two to three ounces a day; let it be finely powdered, and then mix with it by little at a time as much honey as will form it into a ball; give it every morning fasting for a month; or it may be given at first for a fortnight only, intermitting a fortnight, and then repeat it. If it be observed that the horse shews an uneasiness at the stomach after taking it, a horn or two of any liquor should be given after it, or it may be dissolved at first in his water, or mixed with his corn; though the ball

Nitre.
how to be
given.

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ball where it agrees, is the easiest method of giving.

Besides the mercurial medicines recommended in the farcy, which we have already animadverted on, in very obstinate cases, the following method of giving turbith has been found extremely successful, after bleeding the horse twice or thrice, if full of blood, and in flesh.

A mercurial alterative.

TAKE turbith mineral one dram, diapente one ounce; make into a ball with honey.

Give one of these balls every other morning for a fortnight; rest a fortnight, and then repeat them in the same manner. During this course the horse should be kept warm, in order to heighten the perspiration; and particular care should be taken that he catches no cold: let him be bled once in ten days about two quarts; and those days the balls are omitted, take him out for half an hour, if the weather is fair, and when he comes in, let him be well curried for an hour; after

after this course is finished, give him a quart of hemp-seed in his corn every day for a month; but as the horse's mouth will probably be sore, his feed should be boiled oats, barley, and scalded bran.

As the operation of mercurials both in men and horses is very precarious, if the quantity above mentioned gripes the horse or purges him, instead of the diapente mix it up with two drams of philonium, or half a scruple of opium or camphor; should it affect his mouth so much as to render him incapable of eating even soft food, the purging drink should be given him, so as to procure three or four stools every day, and the ball forbore till this complaint is removed. But this medicine I think may in some horses succeed better, by giving the turbith in less quantities, and for a longer time, a scruple every night, or half a dram every other night; which method I think safest to begin with, in order to judge of the horse's constitution; and as have more particularly explained in the chapter on

Mercurials operate uncertainly on horses.

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FARCY. After this course, a strong decoction of guaiacum, or the alterative powders should be given for a month: or lime water may be given for his constant drink, at first mixed with his water, afterwards alone.

The guaiacum decoction may be prepared thus:

The
sweetning
drink.

TAKE of the shavings of guaiacum two pound, liquorice root sliced four ounces, crude antimony, grossly powdered and put into a bag, one pound: boil in three gallons of spring water for an hour, and keep the decoction upon the ingredients in a clean earthen pan for use.

In what
cases to be
given.

This is both a cheap and efficacious medicine in all foulness of the skin, and very proper to be given after a course of mercurials; for it will sweeten and correct the blood and juices, and, by promoting the secretions, dry up superfluous humidities on particular parts, as in the strangles,
all

all glandular disorders, and old running sores. Four horns full should be given twice or thrice a day, and continued two or three months in obstinate cases, intermitting now and then a week, that the horse may not be cloyed with continual drenching.

When horses take drinks with great reluctance, powders must be given in their feeds; thus crude antimony, or liver of antimony finely powdered, may be given to the quantity of half an ounce, night and morning: but in all surfeits gum guaiacum mixed with antimony is found more efficacious. Thus,

TAKE of crude antimony finely powdered, or where it can be afforded, cinnabar of antimony, and gum guaiacum, of each a pound: mix together with an oily pestle to prevent the gum's caking; divide the whole into thirty two doses, viz. an ounce each dose; let one be given every day in the evening feed.

The
alterative
powders:

P

Or,

Or,

An alterative ball.

TAKE of cinnabar of antimony; gum guaiacum, and Castile of Venice soap, of each half a pound, salt of tartar four ounces; beat them up into a mass, and give an ounce every day. To these may be added very advantageously, an ounce and a half of camphor.

These are excellent alterative medicines, particularly for surfeited horses; they will rectify the fluids, open the horse's hide, promote the secretions; and make him coat well; they will likewise fuse and thin the blood, and therefore are extremely proper when the juices are too viscid and fizy, which often occasions lameness in various parts; in short these sort of medicines are to be preferred to most others of this kind, as they are given with greater safety, and require no confinement, or particular diet.

They

They seem well calculated also for Are proper for running horses. running horses, (especially the latter) whose fluids of course, from the violence of their exercise, are often subject to great alterations; which will with more safety, and less inconvenience, be remedied by these means, and a gentle alterative purge given once a week or ten days, than the usual method of treating them with stronger purgatives; which, besides disqualifying them for their exercise for some time, will not alone answer this intention, till the blood has been saturated with medicines of this kind.

Æthiops mineral given to the quantity of half an ounce a day, is a Æthiops mineral apt to salivate some horses. very good sweetner and corrector of the blood and juices; but it has been observed, after having been taken a week or ten days, to make some horses slabber, and unable to chew their hay and oats: and the same symptoms have arose, where only two drams of crude mercury has been given, and continued about the same space of time.

The cause. Whenever therefore mercurial preparations are given to horses, they should be well attended to, and sufficient intervals be allowed to prevent a flux on the mouth and nose. The reason why these kind of mercurials will flux horses sooner than men, may be owing to the mouths of the lacteals in horses being more open, large, and free than those in men; whose orifices may also be furred up by viscid oily things, to which inconveniences horses are not so liable, by reason of their simple diet: besides the horizontal situation of the guts of horses may contribute not a little to it, by preventing the mercury from passing through them so quick as in men; and the depending situation of the horse's head, may occasion its being so soon affected, when the blood is once saturated with mercurial particles.

Impracticable to salivate horses.

But, as it has been found impracticable to carry a horse through a salivation, or even to keep him one week under it, by reason of the great plentitude

Of Alterative Medicines.

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tude or fullness brought on all the vessels of the head, so that the horse can neither chew his food, nor swallow liquids, whenever such symptoms appear, the medicine must be laid aside, till by purging, as before mentioned, they are removed.

The following mercurial alterative ball may be given under the above restrictions, in obstinate cases.

TAKE crude mercury one ounce, An alterative mercurial ball;
Venice turpentine three drams;
rub them together in a mortar,
till the quicksilver is thoroughly
divided, and then add of gum
guaiacum finely powdered two
ounces, diagrydium in powder
half an ounce: mix with honey,
and divide into eight balls: give
one every other night for a
month, or longer. During this
course, care should be taken that
the horse gets no cold, for which
it is best prosecuted in summer.

As may also the following antimonials in the like cases:

P 3

TAKE

TAKE of the glass of antimony finely powdered two ounces, crocus metallorum finely powdered four ounces, Venice soap six ounces; make into twelve balls with honey, and give one every night.

Purging
medicines
given
in small
quantities,
are also
good alter-
atives.

The great inconveniencies that attend the purging of horses in the usual manner, makes the following method of giving those kinds of medicines eligible in most cases; for though their operation by the bowels is thereby greatly lessened, yet the other secretions are more advantageously increased; for by giving them in small quantities, or combined with alteratives adapted to the case, they pass into the blood, and (as has been before explained) act more powerfully; by breaking the cohesions of the viscid fluids, cleansing the finer vessels, where probably obstructions are formed, than when they act more sensibly on the bowels.

Thus

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Thus in surfeits, flying lamenesses, &c. give the following mass divided into eight balls; one may be taken twice or thrice a week, according to their operation.

TAKE lenitive electuary eight ounces, jallap and scammony powdered of each one ounce, cinnabar, gum guaiacum and nitre, of each two ounces, camphor half an ounce, syrup of buckthorn a sufficient quantity to form them.

Or,

TAKE aloes six drams; gum ^{Forms of such} guaiacum half an ounce; diaphoretic antimony and salt of tartar, of each two drams; make into a ball with any syrup. ^{medicines.}

Also,

TAKE the finest succotrine aloes half an ounce, or six drams, cream of tartar half an ounce; powder of jalap and salt of tartar
of

Of Alterative Medicines.

of each one dram, make into a ball with oil of amber.

One of these may be given every week for a month, or six weeks, with scalded bran, and warm water: the first day it will operate by urine, the next day both ways, but very gently by stool, unless it should meet with a redundancy of slime in the bowels.

Or six drams of aloes, with half an ounce of diapente, and salt of tartar, may be given as an alterative purge in molten-grease, &c.

Hiera picra and colocintida with salt of tartar may be given in the same manner: and for obstructions in the lungs, and to thick winded horses, take the following:

Galbanum, ammoniacum, and assa foetida, of each two drams; fine aloes half an ounce or six drams; saffron one dram; honey a sufficient quantity.

But, as we have already occasionally offered various forms of this kind, we shall

Of HUMOURS.

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shall avoid giving here any more specimens.

A decoction of log-wood, prepared like that of gualacum, is also successfully given in surfeits. Forms of diet drink.

Lime-water, prepared with shavings of sassaphras and liquorice, is a good diet drink, to sweeten and correct a horse's blood; and may be given with the nitre balls for that purpose.

Tar-water also, as has before been hinted, may in many cases be well worth trial: but let it be remembered that all medicines of this kind should be continued a considerable time, in obstinate cases.

CHAP. XXII.

Of HUMOURS.

THE word *Humours* (which has an unbounded latitude both in *physick* and *farriery*, and is too often a proper sanctuary for the ignorant The term humours but little understood to

to fly to in both professions) seems to be strangely misapplied, and in general but little understood; otherwise it would not be so indeterminately used as it is, when the disorder is not in the fluids, but merely in the vessels,

Very im-
properly
said, some-
times to
fall down.

Thus it is often affirmed, that *humours* fall down on the limbs, when with more propriety it might be said, they cannot so well rise up, or circulate so freely in perpendicular as in diagonal canals; for the force of the heart is the same, whither to raise a column of blood in an upright or horizontal direction, though it is not the same in respect to the situation of the vessels; for when any animal is erect, the blood vessels in the legs are more on a stretch by far than when he lies down; and if the vessels are in a lax state naturally, or relaxed by external injuries, they are not able to propel the fluids forward, and hence from a retarded circulation arises a swelling in the part affected.

Swellings
in the legs
often owe-
ing to re-
laxed ves-
sels.

Dr. *Bracken* (to whom all true lovers of horses are much indebted,
for

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for the pains he has taken to explōde false notions, and embellish true ones) has endeavoured to set this matter in the clearest light; which indeed he has done to the satisfaction of the unprejudiced, and of every one who can understand, and does not wilfully shut his eyes on so clear a doctrine.

It would be to little purpose therefore to enforce it, unless the reader would be at the pains to form to himself a clear idea of the blood's circulation, with the secretions from it; and consider the solids as composed of elastic fibres, or springy threads, which are sometimes in a lax or loose state, and at others in a tight or firm one.

The study of anatomy absolutely necessary.

This knowledge would soon convince him, that the extream parts may be swelled, without humours falling down upon them, from a difficulty in the circulation (as before explained) to push on blood in perpendicular columns, or from a laxity of the vessels themselves.

In

The
falling
down of
humours
explained
by a fami-
liar case.

Swellings
accounted
for from
retarded
circula-
tion.

In order to make this doctrine as familiar as possible, let us suppose that a man, or horse, in perfect health, whose blood and juices are in the best condition, receives a violent blow on the leg, the consequence of which is a bruise, and swelling: if the limb of either is kept in a perpendicular situation with little or no motion, the swelling will continue; and we may say, if we please, the *humours* are fallen into it: but change only the position, and continue the limb of either in a supine or level one; the swelling will then soon abate, and the *humours* disappear. In this case where were the *humours* before the accident; how came they so suddenly to the injured limb, and so soon to disappear? Is it not more reasonable to suppose the swelling arose from a retarded circulation in the part injured, the vessels by the violence of the blow having lost their tone, and were so preternaturally distended by the stagnant blood, that a free circulation through the part was thereby interrupted; and that this swelling would

would have continued, had not the obstruction been removed by a different posture, assisted by proper applications? And is it not obvious in dropical, and other swellings, in the extream parts, from lax fibres, that though the legs shall be enormously swelled, after having been in an erect posture all the day; yet that after laying twelve hours in a supine one, they shall recover their natural shape?

Exemplified in dropical habita.

This is by no means intended to prove, that there are no bad humours, or juices, in the blood, or that they do not attend and affect some particular parts; (daily experience would contradict such an assertion, particularly in cancerous, schrophulous, venereal, and scorbutic cases in the human body, and the farcy, surfeits, strangles, &c. in horses) but only to guard against the promiscuous use of the term, and to evince that in many cases where the humours are said to abound, and cause swellings, the fault is in the vessels, which have not force enough to propel the circulating fluids, or a perpendicular

The blood and juices often vitiated.

perpendicular column of blood; as often happens to the vessels of the legs and extream parts.

Limbs
may be
swelled
without
humours.

Thus we see that a languid circulation, relaxed vessels, and want of muscular power to push on the fluids, may by retarding the circulation, occasion swellings in the extream parts, without any suspicion of bad humours, or the blood's being at all in fault. This might be farther illustrated by those swellings in man, called the piles, where the ascent of the venal blood is interrupted by its own weight, the want of force in the vessels, and of assistance from the circumjacent parts to push on the circulation: but we hope what has already been said, will sufficiently answer our design.

The cure
must be
directed
accord-
ingly.

The inference to be drawn from hence is, that the cure must be differently directed when the swelling proceeds from the blood and juices, and when from the solids or vessels. In the former case, evacuations and alteratives are necessary to lessen their quantity, and rectify their quality;
in

Of HUMOURS.

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in the latter, externals, proper exercise, and good diet.

Conformably swelled legs arising from poverty of blood, laxity of vessels, and low diet, would be increased by evacuations, and cured by recruiting the constitution. But swelled legs from a gross constitution, where the vessels are too replete, and the blood in bad condition, will seldom be cured without bleeding, purging, rowelling, and alteratives: unless perhaps the horse is turned out to grass.

To treat this subject properly, and prove in a strict sense what ought to be understood by the word *Humours*, would take up more time than the brevity we have prescribed ourselves will admit on; but these hints may be sufficient to expose the absurd cant of farriers, who are eternally misapplying a term they by no means understand, and making the word *Humours* subservient to all purposes.

The word
humours
strangely
abused by
farriers.

We

We shall conclude this chapter however with observing that there are more than thirty different juices, or *humours*, constantly floating in, and separated from the blood; the chief of which are the bile, perspirable matter, sweat, saliva, urine, lymph, seed, &c. which when properly mixed, and thrown off in due quantity from it, are extremely necessary to the health, and welfare of the animal; but when once perverted, irregularly carried on, or suppressed, they then become noxious, and are productive of many, and various disorders. Thus from an obstruction of the bile, the yellows, St. Anthony's fire, Erysipelatous fevers and swellings may be occasioned; the consequence of so acrimonious a fluid mixing unduly with the blood: By colds or a sudden checking of sweats, or perspiration, that matter which should freely flow off through the pores, is suddenly thrown back on the blood, which increases its quantity, and vitiates its quality; from hence the serum of the blood may become acrid and sharp; the
mass

mass of fluids in general may thus be tainted, and by thickening, form obstructions in the glands, or fine vessels: The other juices, or humours may also be perverted by various causes, as foul feeding, improper diet, &c. and produce variety of diseases, by rendering the blood too thick, thin, or acrimonious. Thus much we have thought necessary to observe in relation to *humours*; wherein may be observed, how much the term is misunderstood and abused; as in their natural state, they are not only amicable, but necessary; yet when obstructed, or perverted, they are the cause of almost all diseases.

C H A P. XXIII.

Of ROWELLING.

THERE seems to be no remedy so much made use of, and so little understood by farriers in general, as rowels; for which reason we shall endeavour to set the whole affair in a

Rowel-
ling de-
fined.

Q

clearer

clearer light, than hitherto it has appeared in.

We shall begin then by describing rowelling, which is an artificial vent made between the skin and flesh, in order to unload and empty the vessels in general, and thereby relieve particular parts when too much oppressed by a fullness or redundancy.

The general notion concerning rowelling is absurd.

The general and absurd reasoning of farriers on the effects and use of rowelling, in some measure makes this chapter the more necessary, as it is too notorious how impertinently they talk on this subject: for in short with them, a rowel is to draw off all the bad and corrupt humours from the blood, by a sort of magick.

It is necessary to observe that the matter generally discharged by a rowel, is nothing more, than an oozing from the extremities of the vessels divided in the making of it; in fact then, it is blood, which loses its colour, by being shed out of the vessels,

Of ROWELLING.

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vessels, the warmth of the part, and its confinement.

If this is granted, it will evidently appear, that the good effects ensuing this operation, must be owing to a gradual depletion; or emptying of the vessels in general; by which means the surcharge or load on a particular part is taken off and removed; and impurities or bad juices (generally called humours) run off with the good in proportion to their quantity in the blood.

The use of rowels.

To imagine *particular humours* are thus separately and alone discharged from the blood through these orifices, is an opinion but too generally received, though a very absurd one; and must be very pernicious in its consequences, from the bad effects it may have in practice; as must the same reasoning also in regard to purging.

Thus to lean hide-bound horses, and those of a dry hot constitution, the discharge, by depriving the constitution of so much blood and fluids,

Rowels, when improper.

OF ROWELLING.

is daily exhausting the strength of the animal; and may be productive of bad consequences, by defrauding the constitution of a necessary fluid.

When
proper.

But in disorders from fullness, attended with acrimony or sharpness of the juices, and with denixions on the eyes, lungs or any part of consequence, the gradual discharge brought on by this means will contribute to lessen the fullness on the parts affected, and give the vessels an opportunity of recovering their tone; while evacuating and alterative medicines are doing their office.

It may be necessary however to observe that there is a wonderful communication between the vessels of the cellular membrane under the skin, which remarkably appears by inflating those of sheep, calves, &c. by the butchers; hence probably it is that some disorders of this integument are so apparently relieved by issues or rowels, without our having any recourse to that general depletion of the vessels we have just observed, to account

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count for it; and hence also, may be deduced their utility, sometimes in draining off any extravasated fluids, which may lodge between the interstices of the muscles after violent strains of the shoulder; also such vicious, or sharp fluids, as are thrown on the membranes, and occasion these flying pains, and lamenesses, which we find are often removed by this local remedy.

These observations, with some few interspersed in the preceding chapters, it is hoped, will be of some use to reconcile a very vague term to some meaning.

CH A P. XXIV.

Of Strains in Various Parts.

IT is necessary to observe that in all strains, the muscular or tendinous fibres are overstretched; and sometimes ruptured, or broke. To form therefore a true idea of these disorders,

Strains described.

230 *Of Strains in Various Parts.*

let us first consider every muscle and tendon as composed of springy elastic fibres, which have a proper power of their own to contract and extend themselves: or, to make their action more familiar, let us compare them to a piece of catgut, that we may the better judge with what propriety oily medicines are directed for their cure. Thus then, if by a violent extension of this catgut, you had so overstretched it, as to destroy its springiness or elasticity, and was inclined to recover its lost tone; would you for that purpose think of soaking it in oil? And is not the method of treating strains, or overstretched muscles and tendons, full as preposterous, when you bathe or soak them in oily medicines, at a time that they want restringents to brace them up? Yet custom has so established this practice and fallacious experience seemingly so confirmed it, that it would be a difficult task to convince the illiterate and prejudiced, of the absurdity; who, by attributing effects to wrong causes, are led into this error, and the oils usurp the reputation that is due only to rest and quiet

Oily
medicines
improper
for strains.

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quiet: they seem however to be aware of the ill consequences, by their adding the hot oils, as spike, turpentine and origanum; which, though they in some measure guard against the too suppleing quality of the other oils; yet the treatment is still too relaxing to be of real service.

And indeed in all *violent* strains of either tendons or muscles, whatever opinion we may entertain of bathing and anointing with favourite nostrums, which often succeed in slight cases, where perhaps bandage alone would have done; yet it is the latter, with proper resting the relaxed fibres, till they have thoroughly recovered their tone, that are the chief things to be depended on; and frequently some months are necessary for effecting the cure.

All violent strains of the ligaments, which connect the bones together, especially those of the thigh, require time and turning out to grass, to perfect a recovery. External applications can avail but little here, the parts affected

Bandage
and rest
proper in
strains.

Time and
turning
to grass,
often ne-
cessary.

affected, laying too deep, and so surrounded with muscles, that medicine cannot penetrate to them. The sooner in these cases a horse is turned out to graze the better, as the gentle motion in the field will prevent the ligaments and joint oil from thickening, and of course the joint itself from growing stiff; nor do I believe that firing, so commonly practised in this case, is of half the consequence (if of any at all) as rest, and turning out for a considerable time; which by the bye is always advised at the same time the horse is fired. I could not avoid saying thus much, in order to shew the great advantages of rest in all strains, and that no horse should be worked till he is thoroughly recovered.

The
signs of a
strained
shoulder.

When a horse's shoulder is overstrained (for there is no such thing as being shoulder-slipst or dislocated) he does not put out that shoulder as the other, but to prevent pain, sets the sound foot hardly to the ground, to save the other; even though he be turned short on the lame side, which motion tries him the most of any.

When

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When trotted in hand, instead of putting his leg forward in a right line, he forms a circle with the lame leg; and when he stands in the stable, that leg is advanced before the other. In order to cure this lameness, first bleed him, and let the whole shoulder be well bathed three times a day with hot verjuice or vinegar, in which may be dissolved a piece of soap; but if the lameness continues without swelling, or inflammation, after resting two or three days, let the muscles be well rubbed for a considerable time to make them penetrate, with good opodeldoch, or either of the following mixtures:

TAKE camphorated spirits of wine two ounces; oil of turpentine one ounce; this proportion will prevent the hair coming off.

Or,

TAKE the best vinegar half a pint; spirit of vitriol, and camphorated spirit of wine, of each two ounces.

When

A fomentation.

When the shoulder is very much swelled, it should be fomented with woollen cloths (large enough to cover the whole) wrung out of hot verjuice and spirit of wine; or a fomentation prepared with a strong decoction of wormwood, bay-leaves, and rosemary, to a quart of which may be added half a pint of spirit of wine.

Boring and pegging condemned.

A rowel in the point of the shoulder in this case often does great service; especially if the strain has been very violent, and the swelling very large; but as to boring up the shoulder with a hot iron, and afterwards inflating it, is both a cruel and absurd treatment; and the pegging up the sound foot, or setting on a patten shoe, to bring the lame shoulder on a stretch, is a most preposterous practice, and directly calculated to render a horse incurably lame; for it can only be necessary in cases the very opposite to this, where the muscles have been long contracted, and we want to stretch them out.

Where

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Where poultices can be applied they are at first undoubtedly very effectual after bathing with hot vinegar or verjuice, and are to be preferred greatly to cold charges, which by drying so soon on the part, keep it stiff and uneasy; let them be prepared with oatmeal, rye-flower, or bran boiled up in vinegar, strong beer, or red wine lees, with lard enough to prevent their growing stiff; and when by these means the inflammation and swelling is brought down, bathe the part twice a day with either of the above mixtures, opodeldoch, or camphorated spirits of wine; and rowl the part three or four inches, both above and below, with a strong linnen rowler, of about two fingers width; which will contribute not a little to the recovery, by bracing up the relaxed tendon; and perhaps is more to be depended on than the applications themselves.

Refrin-
gent poul-
tices very
proper in
strains.

Bandage
advised.

As opodeldoch is variously made, and those usually sold in the shops, do not seem so well calculated for horses,

we

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we shall insert the following, as better adapted to this purpose, and recommend it to be kept ready prepared for the use of the stable; it being not only very proper for the above use, but for bruises, cold swellings, benumbed parts, and for dispersing many other such sort of tumors; it may occasionally also be given internally for the gripes from wind, or taking cold; for the strangury also, and as a cordial; one ounce, or more, may be taken for a dose, in a pint of ale.

T A K E Jamaica pepper four ounces, Winters bark, caraway seeds, laurel, and juniper berries bruised, of each two ounces; rosemary, marjoram and lavender flowers of each one ounce; rectified spirit of wine, three pints; let them digest in a warm place ten days, then strain of the tincture, and dissolve in it Venice soap a pound and a half; camphor three ounces; Barbadoes tar four ounces; oil of turpentine eight ounces; oil of amber two ounces;

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ounces; mix and make a liniment.

In strains of the *coffin joint* that have not been discovered in time, there will grow such a stiffness in the joint, that the horse will only touch the ground with his toe; and the joint cannot be played with the hand; the only method here is repeated blistering, and then firing superficially.

Signs of
Strains in
the coffin.

Strains of the *back sinews* are very common, and are easily discovered by the swelling, which extends sometimes from the back side of the knee down to the heel, but for the most part the horse sets that leg before the other. The tendon should be well bathed three or four times a day with hot vinegar; and if much swelled, apply the poultices above recommended; and when the swelling is down, bathe with the mixtures above, or with camphorated spirit of wine and oil of amber, in which is dissolved as much camphor as the spirits will take up, and rowl up the tendon with a proper bandage.

Strains in
the back
sinews,
how
known
and cured.

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bandage, or laced stocking; which last properly fitted to the limb, might be wore to great advantage; not only in these sort of injuries, but in most others, where there is a disposition to the grease, or other swellings of the limbs, from weak and relaxed fibres. Carriers shavings wetted with vinegar have been found useful for this purpose; as has also tar and spirit of wine: but where the tendon has suffered by repeated injuries of this kind, the case will demand blistering, firing and proper rest.

Strains of the knees and pasterns. Strains of the *knees* and *pasterns* arise frequently from kicks, or blows; if they are much swelled, apply first the poultices; and when the swelling is abated, bathe with the above, or the following:

Mixtures for strains. TAKE vinegar one pint; camphorated spirits of wine, four ounces; white vitriol, dissolved in a little water two drams.

Or,

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Or,

TAKE the whites of three or four eggs, beat them into a froth with a spoon; to which add an ounce of roach allum finely powdered; spirit of turpentine and wine of each half an ounce; mix them well together.

The following is also much recommended by the French writers, and has been found very successful in some old strains, when other remedies have failed.

TAKE one pound of tar, and two of rectified spirit of wine, stir them together over a fire till they incorporate (but take care the flame does not catch the spirits,) then add two ounces of bole finely powdered; and a sufficient quantity of oatmeal to bring it to the consistence of a poultice, to which add lard enough to prevent its growing dry; apply it spread on cloth twice a day.

As

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As great weakness remains in the patterns after violent strains, the best method is to turn the horse out to grass till he is perfectly recovered; when this cannot be complied with, the general way is to blister and fire.

The signs of lameness in the *stifle*. When a horse is lame in the *stifle*, he generally treads on his toe, and cannot set the heel to the ground. Treat him at first with the vinegar and cooling restringents; but if a large swelling with puffyness ensues, foment it well with the discutient fomentation till it disperses; and then bathe the part with any of the above medicines.

The signs of lameness in the *whirl bone*. A lameness in the *whirl bone* and hip, is discovered by the horse's dragging his leg after him, and dropping backward on his heel when he trots. If the muscles of the hip are only injured this kind of lameness is cured easily; but when the ligaments of the joint are affected, the cure is often very difficult, tedious, and uncertain. In either case at first bathe the parts well

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well with the cooling medicines four or five times a day; in the muscular strain this method alone may succeed, but in the ligamentous it is rest and time only can restore the injured parts to their proper tone.

Strains in the *hock* are to be treated by soaking the parts with coolers and repellers; but when the ligaments are hurt, and they are attended with great weakness and pain, use the fomentation. If a hardness should remain on the outside, it may be removed by repeated blistering; if within, it may be out of the power of any external applications to remove; however the joint should be fired gently with small razes or lines pretty close together, and then covered with a mercurial plaister. To the discutient fomentation above-mentioned may be added crude sal armoniac, with a handful of wood ashes boiled in it.

The blistering ointment for the above purposes may be found in the
R chapter

Of Strains in Various Parts.

chapter of *Bone-Spain*; but the sub-
limate should be omitted.

Firing for
strains on
the sinews
how it
should be
performed.

The *firing* used for the strengthen-
ing relaxed sinews or tendons, should
act only on the skin, which by con-
tracting and hardening it all round the
sinews, compresses them more firmly
like a bandage. The bow-men of old
submitted to this operation, in order
to give strength to the muscles and
tendons of their arms. A proper degree
of skill is very requisite to perform it
effectually on a horse; for a due me-
dium should be observed; and the
instrument neither so slightly applied
as to scarify the skin only superficially,
nor so deep as to wound or cauterize
the sinew or its sheath: in the former
case, the wounds not penetrating the
skin at all, the scars would not be hard
enough to act with a sufficient pressure
on the tendon; and in the latter, the
fire being given too deep, might slough
off the tendon itself, the consequence
of which would be a loss of substance,
and of course a lameness would ensue
from a contracted sinew.

C H A P:

OF TUMORS *and*

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CHAP. XXV.

Of TUMORS *and* IMPOSTUMES.

TUMORS or swellings arise either from external injuries or internal causes.

Swellings caused by external accidents, as blows and bruises, should at first be treated with restringents; thus let the part be bathed frequently with hot vinegar or verjuice, and, where it will admit of bandage, let a flannel wetted with the same be rowled on: If by this method the swelling does not subside, apply, especially on the legs, a poultice with red wine lees, strong beer grounds and oatmeal, or with vinegar, oil and oatmeal; either of these may be continued twice a day, after bathing, till the swelling abates; when in order to disperse it intirely, the vinegar should be changed for camphorated spirit of wine, to four ounces of which may be added

Swellings
from ex-
ternal
causes,
how
treated.

R 2

one

I M P O S T U M E S.

one of spirit of sal ammoniac; or it may be bathed with a mixture of two ounces of crude sal ammoniac boiled in a quart of chamberlye, twice a day, and rags dipped in the same may be rowled on.

Fomentations often necessary.

Fomentations made by boiling wormwood, bay-leaves and rosemary, and adding a proper quantity of spirits, are often of great service to thin the juices, and fit them for transpiration; especially if the injury has affected the joints.

But in bruises, where the extravasated blood will not by these means be dispersed, the shortest way is to open the skin, and let out the grumes.

Critical tumors, or swellings which terminate fevers, should by no means be dispersed; except when they fall on the pastern or coffin joint, so as to endanger them; in this case the discutient fomentation should be applied three or four times a day, and a cloth or flannel frequently wrung out of the same should be bound on, in order

Of TUMORS and

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to keep the joint continually breathing.

But if the swelling fixes under the jaws, behind the ears, on the poll, withers, or in the groins and sheath, *&c.* it should be encouraged and forwarded by ripening poultices, wherever they can be applied; oatmeal boiled soft in milk, to which a proper quantity of oil and lard is added may answer this purpose; or the poultice recommended in the chapter of *Strangles*: these must be applied twice a day, till the matter is perceived to fluctuate under the fingers, when it ought to be let out; for which purpose let the tumor be opened with a knife or strong lancet, the whole length of the swelling, if it can be done safely, for nothing contributes so much to a kind healing, as the matter's having a free discharge, and the openings being big enough to dress to the bottom.

Pledgits of tow spread with black or yellow basilicon (or the wound ointment) and dipped in the same,

The fore
how dressed.

R 3

melted

IMPOSTUMES.

melted down with a fifth part of oil of turpentine, should be applied to the bottom of the sore, and filled up lightly with the same, without cramming; it may be thus dressed once or twice a day, if the discharge is great, till a proper digestion is procured, when it should be changed for pledgits spread with the red precipitate ointment, applied in the same manner.

Fomentations and poultices recommended to help digestion.

Should the sore not digest kindly but run a thin water and look pale, foment as often as you dress, with the above fomentation; and apply over your dressing the strong beer poultice, and continue this method till the matter grows thick, and the sore florid.

The following ointments will generally answer your expectations in all common cases, and may be prepared without, as well as with, the verdigrease.

The wound ointment.

TAKE Venice turpentine and bees wax, of each a pound; oil of olives one pound and half; yellow rosin twelve ounces: when melted

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melted together, two or three ounces of verdigrease finely powdered may be stirred in, and kept so till cold, to prevent its subsiding.

TAKE of yellow basilicon, or the above ointment, without verdigrease, four ounces; red precipitate finely powdered half an ounce: mix them together cold, with a knife or spatula.

The red precipitate ointment.

This last applied early, will prevent a fungus, or proud flesh, from shooting out; for if you dress too long with the above digestive, the fungus will rise fast, and give some trouble to suppress it; when it will be necessary to wash the sore as often as you dress, with a solution of blue vitriol in water, or to sprinkle it with burnt allum and precipitate. If these should not be powerful enough, touch with a caustic, or wash with the sublimate water, made by dissolving half an ounce of corrosive sublimate in a pint of lime water.

The sublimate wash.

But

Observation.

But this trouble may in a great measure be prevented, if the sore is on a part where bandage can be applied with compresses of linnen cloth: for even when these excrescences re-germinate, as it were, under the knife, and spring up in spite of the caustics above mentioned, they are to be subdued by moderate compression made on the sprouting fibres, by these means.

Authors on farriery have in general given very proper receipts to answer every intention of this kind by medicines; but as they have not, I think, laid down sufficient rules for their application in those cases where they are most wanted, I hope the following general directions will not be unacceptable; as the difficulty in healing some kind of sores arises frequently from the unskilful manner of dressing them,

How sores should be dressed.

It may be necessary then to observe here once for all, that the cures of most sores are effected by the simplest methods, and that it is often of much
more

more consequence to know *how* to dress a sore, than *what* to dress it with; and in this consists indeed the chief art of this branch of surgery; for the most eminent in that profession have long since discovered, that variety of ointments and salves are unnecessary in the cure of most wounds and sores, and they have accordingly discarded the greatest part, formerly in repute for that purpose; repeated observations having taught them, that after the digestion, nature is generally disposed to heal up the wound fast enough herself, and that the Surgeon's chief care is to prevent a luxuriancy, commonly called *proud flesh*; which all ointments wherein lard or oil enters, are but too prone to encourage, as they keep the fibres too lax and supple; and which dry lint alone, early applied, as easily prevents, by its absorbing quality, and light compression on the sprouting fibres.

Thus if a hollow wound or sore is crammed with tents, or the dressings are applied too hard, the tender shoots of flesh from the bottom are prevented pushing

Some particular directions for that purpose.

pushing up; and the sides of the fore in time from this distension may grow horny, and turn fistulous; nor has the matter by this method a free discharge.

On the otherhand, if sores of any depth are dressed superficially, the external parts being more disposed to heal and come together than the internal, they will fall into contract, or heal too soon; and the sore not filling up properly from the bottom, will break out afresh.

Hence we may justly conceive how little stress is to be laid on famous ointments, or family salves, unskillfully applied; for unless this due medium is observed, or obtained in the dressing, no hollow sore can heal up properly.

Frequent
disap-
point-
ments
happen
from dress-
ing un-
skillfully

I thought it necessary to be a little explicit on this head, as gentlemen so frequently complain of being disappointed in their cures, notwithstanding the excellency of their ointment, or balsam; and to convince them that less confidence should be put

put in these favourite medicines than is generally imagined; for where the habit is sound, and the blood and juices in good condition, there are few simple dressings that will not succeed; and when otherwise, the most pompous will not avail, till these are rectified by proper internal medicines.

As soon then as a good digestion is procured (which is known by the thickness and whiteness of the matter discharged, and the florid red colour at the bottom of the sore) let the dressings be changed for the precipitate medicine; or the sore may be filled up with dry lint alone, or dipped in lime-water with a little honey and tincture of myrrh or brandy: about a fifth part of the latter to one of the former; a pledgit of lint dipped in this mixture should also be applied to the bottom of the sore, which should be filled up with others to the surface or edges, but not crammed in too hard, as before observed, nor yet applied too loosely.

The signs
of good
digestion.

By

Digestive
ointments
should
not be
continued
too long.

By this method, the sore would incarn, or heal up properly, and soft spongy flesh would be prevented, or suppressed in time; whereas when ointments or salves are too long continued, a fungus or proud flesh, is thereby so encouraged in its growth, that it requires some time to destroy and eat it down again: a proper compress of cloth, and a linnen rowler is absolutely necessary both for this purpose, and to secure on the dressings, wherever they can conveniently be applied.

An over-
reach de-
scribed.

To illustrate what has been said, I shall take this opportunity of shewing how a wound from an over-reach should be treated, as I find it sometimes proves very difficult of cure. This wound is caused by the point of the hind shoe's cutting into the horse's fore heel; and when it is only superficial, or slight, is in general easily cured by washing it clean, and applying the wound ointment: but it should be observed from the nature and manner of the injury, where the blow
has

has been smart, that it differs widely from a common cut; the part here being both torn and bruised; and consequently it requires to be properly digested, in order to lay a good foundation for healing.

For this purpose, after washing out any dirt or gravel with soap suds, &c. How cured.
let the wound be digested, by dressing it with dossils of lint dipped in an ounce of Venice turpentine, divided with the yolk of an egg, to which half an ounce of tincture of myrrh may be added; over this dressing I should advise the turnep poultice, or that with strong beer grounds and oatmeal, to be applied three or four times, or oftner, till the digestion is procured, which is known by the signs above mentioned, and then both these dressings may be changed for the precipitate medicines, or the lime-water mixture; observing always to apply the dossils carefully to the bottom, to fill up the sore with the same even to the surface, and to bind all on with a compress and rowler: and if any cavities appear that cannot conveniently

Of WOUNDS.

conveniently be dressed to the bottom, they should always be laid open, or no proper foundation for healing can be obtained. The hoof also should be kept supple, or paired away, when the growth of it, interrupts this end, as sometimes is the case.

C H A P. XXVI.

Of WOUNDS in General.

The lips
of all fresh
wounds
should be
brought
into con-
tact.

IN all fresh wounds made by cutting instruments, there is nothing more required than bringing the lips of the wound into contact by suture or bandage, provided the part will allow of it; for on wounds of the hips, or other prominent parts, and across some of the large muscles, the stitches are apt to burst on the horse's lying down and rising up in the stall; in such cases the lips should not be brought close together: one stitch is sufficient for a wound two inches long; but in large wounds, they should be at an inch or more distance; and if the wound is deep in the muscles, care should be taken

Of WOUNDS.

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aken to pass the needles proportionably deep, otherwise the wound will not unite properly from the bottom.

Should the wound bleed much from an artery divided, the first step should be to secure that by passing a crooked needle underneath, and tying it up with a waxed thread: if the artery cannot be got at this way, apply a batten of lint or tow to the mouth of the bleeding vessel, dipped in a strong solution of blue vitriol, styptic water, oil of vitriol, or hot oil of turpentine, powdered vitriol, or colcothar, &c., and remember always to apply it close to the mouth of the bleeding vessels, and take care that it is kept there by proper compress and bandage, till an eschar is formed; otherwise it will elude your expectations, and frequently alarm you with fresh bleedings.

How
bleeding
in wounds
should be
stopped.

I purposely avoid setting down any famous receipts for fresh wounds, whether ointments or Fryar's balsams, being well assured, that in a healthy sound constitution, nature furnishes the best balsam, and performs herself the

the cure, which is so often attributed to the medicine; when it is otherwise, and the blood is deprived of its balsamic state, as will appear from the aspect of the wound, and its manner of healing, it must be rectified by proper internal medicines, before a good foundation for healing can be laid by any external applications whatever.

Fresh
wounds
how dressed.

The lips of the wound then being brought together by the needle or bandage, it needs only be covered with rags dipped in brandy, or a pledgit of tow spread with the wound ointment, in p. 246. the directions in the preceding chapters being observed, and the wounded part kept as much as possible from motion.

Observation.

Remember to dress all wounds of the joints, tendons, and membranous parts, with terebinthinate medicines: to which may be added honey and tincture of myrrh; and avoid all greasy applications whatever; fomentations are also generally here of great use.

Punctured

Punctured wounds from thorns, or any other accidents, should be treated in the same manner; applying the beer, or bread and milk poultice over the dressing, till some signs of digestion appear; and fomenting the part well every day. This method is also very successfully used to those swellings which often arise on the neck from bleeding, the sores being sprinkled with precipitate and burnt allum powdered to fetch out the core or fungus which choaks up the orifice. The usual method is to introduce a peice of vitriol or sublimate, which often brings on a plentiful discharge, fetches out the core, and makes a cure; but it is often with the loss of the vein, and it sometimes leaves a large swelling and impostumation.

In gun-shot wounds, when the ball has not penetrated too deep, it should be extracted, if it can be fetched away without disturbance, together with any extraneous bodies that might pass in with it; the wound should be dressed with the old digestive of Venice

Gun-shot
wounds,
how treat-
ed.

or common turpentine, divided with the yolks of eggs, to which may be added some honey and tincture of myrrh. The entrance of these wounds frequently requires to be enlarged, and a depending orifice should always be procured if possible; and if the wound should not digest kindly, apply the beer poultice, and foment with the discutient fomentation, p 244.

Scalds and
burns,
how treat-
ed.

In scalds, or burns from gunpow-
der or any other cause, when the
skin remains intire, bathe the part
well, and keep it soaked with rags
dipped in spirit of wine camphorated:
salt bound thick on the part has been
found very effectual for this purpose:
and indeed all saline and spirituous
applications excel others while the
skin is yet unbroke; but when the
skin is separated, anoint the part, and
keep it constantly supple with linseed
or sallad oil, and a plaister spread with
bees-wax and oil; if the skin is so
scorched, that sloughs must be digested
out, dress with the wound ointment
and oil of turpentine, and finish the
cure with any drying ointment. Should
the

the horse be feverish from the pain, bleed him, give cooling glysters, and treat him as we have directed in simple fevers.

The fire supposed to be left in the part after injuries of this kind, is nothing more than the inflammation, which is the natural effect of such causes; so that the whimsical notions and conceits concerning fire remaining in the burnt part, is extremely absurd.

C H A P. XXVII.

Of ULCERS in General.

WE shall not here enter into a description of each particular species of ulcers, but only lay down some directions for their general treatment; by which means we shall avoid the usual prolixity of authors on this subject, and yet give so general an idea of the nature of ulcers; as we hope will be sufficiently instructive

both of the application, and of the proper remedy to each.

The cure
of some
ulcers in
vain at-
tempted
without
internals.

It may be necessary to observe, that we may often in vain pursue the best methods of cure by external applications, unless we have recourse to proper internal remedies; for as all ulcers difficult to heal, proceed from a particular indisposition of the blood and juices, before the former can be brought into any order, the latter must be corrected by alteratives, and sweetening medicines.

The gene-
ral method
of curing
ulcers.

The first intention in the cure of ulcers is bringing them to digest, or discharge a thick matter; which will in general be effected by the green ointment, or that with precipitate; but should the sore not digest kindly by these means, but discharge a gleety thin matter, and look pale, you must then have recourse to warmer dressings, such as balsam or oil of turpentine, melted down with your common digestive, and the strong-beer poultice over them; it is proper also in these kind of sores where the circulation is languid

languid and the natural heat abated, to warm the part, and quicken the motion of the blood, by fomenting it well at the time of dressing; which method will thicken the matter, and rouse the native heat of the part, and then the former dressings may be re-applied.

If the lips of the ulcer grow hard Callous or callous, they must be pared down ulcers. with a knife, and afterwards rubbed with the caustic.

Where soft fungous flesh begins to rise, it should carefully be suppressed in time, otherwise the cure will go on but slowly; if it has already sprouted above the surface, pare it down with a knife, and rub the remainder with a bit of caustic; and to prevent its rising again, sprinkle the sore with equal parts of burnt allum and red precipitate, or wash with the sublimate water, and dress with dry lint even to the surface, and then rowl over a compress of linnen as tight as can be borne; for a proper degree of pressure, with mild applications, will always oblige these

Ulcers with proud flesh.

these spongy excreffences to subside, but without bandage the strongest will not so well succeed.

Hollow
ulcers.

All sinusses or cavities should be laid open as soon as discovered, after bandages have been ineffectually tried; but where the cavity penetrates deep into the muscles, and a counter opening is impracticable or hazardous; where by a continuance, the integuments of the muscles are constantly dripping and melting down; in these cases injections may be used, and will frequently be attended with success. A decoction of colcothar boiled in forge water, or a solution of lapis medicamentosus in lime water, with a fifth part of honey and tincture of myrrh, may be first tried, injecting three or four ounces twice a day: if this should not succeed, the following, which is of a sharp and caustic nature, is recommended on Mr. Gibson's experience.

A drying
injection.

TAKE of Roman vitriol half an ounce, dissolve in a pint of water, then decant and pour off gently into

OF ULCERS.

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into a large quart bottle; add half a pint of camphorated spirit of wine, the same quantity of the best vinegar, and two ounces of *Egyptiacum*.

This mixture is also very successfully applied to ulcerated greasy heels, which it will both cleanse and dry up.

These sinusses or cavities frequently degenerate into *fistulæ*, that is, grow pipey, having the inside thickened, and lined as it were with a horny callous substance. In order to their cure, they must be laid open, and the hard substance all cut away; where this is impracticable, scarify them well and trust to the precipitate medicine made strong, rubbing now and then with caustic, butter of antimony, or equal parts of quicksilver and aqua fortis. Fistulous
ulcers.

When a rotten or foul bone is an attendant on an ulcer, the flesh is generally loose and flabby, the discharge oily, thin and stinking, and the bone discovered to be carious, by its feeling rough to the probe passed through the flesh. Ulcers
with foul
bones.

flesh for that purpose. In order to a cure, the bone must be laid bare, that the rotten part of it may be removed; for which purpose, destroy the loose flesh, and dress with dry lint; or the dossils may be pressed out of tincture of myrrh or euphorbium: the throwing off the scale is generally a work of nature, which is effected in more or less time, and in proportion to the depth the bone is affected; though burning the foul bone is thought by some to hasten its separation.

What internals proper to correct the blood.

Where the cure does not properly succeed, mercurial physick should be given, and repeated at proper intervals: and to correct and mend the blood and juices, the antimonial and alterative powders, with a decoction of guaiacum and lime waters, are proper for that purpose. *Vide* chap. on Alteratives.

This general method of treating ulcers or sores, if properly attended to, will be found applicable to particular cases; so that to avoid repetitions, we refer the reader to this chapter.

CHAP.

Of a BONE-SPAVIN. 265

C H A P. XXVIII.

Of a BONE-SPAVIN.

Without entering at all into the A spavin described. cause of this disorder, which is a bony excreffence, or hard swelling growing on the inside of the hock of a horse's leg, we shall content ourselves with describing the different kinds thereof, by their symptoms; and then enter on their cure.

A spavin that begins on the lower part of the hock, is not so dangerous as that which puts out higher, between the two round processes of the leg bone; and a spavin near the edge is not so bad as that which is more inward towards the middle, as it does not so much affect the bending of the hock.

A spavin that comes by a kick or blow, is at first no true spavin, but The different kinds. a bruise on the bone, or membrane which covers it; therefore not of that consequence.

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consequence, as when it proceeds from a natural cause: and those that put out on colts and young horses, are not so bad as those that happen to horses in their full strength and maturity; but in very old horses they are generally incurable.

Some
proper
cautions.

The usual method of treating this disorder is by blisters and firing, without any regard to the situation, or cause whence it proceeds. Thus if a fullness on the fore part of the hock comes upon hard riding, or any other violence, which threatens a spavin; in that case such coolers and repellers are proper, as are recommended in strains and bruises. Those happening to colts and young horses are generally superficial, and require only the milder applications; for it is better to wear them down by degrees, than to remove them at once by severe means.

Various are the prescriptions for the blistering ointment; but the following, on proper experience, stands well recommended by Mr. Gibson.

TAKE

Of a BONE-SPAVIN. 267

TAKE nerve and marshmallow ointment, of each two ounces; quicksilver one ounce, thoroughly broke with an ounce of Venice turpentine; Spanish flies powdered, a dram and a half; sublimated one dram: oil of origanum two drams.

The
blistering
ointment.

The hair is to be cut as close as possible, and then the ointment applied pretty thick over the part; this should be done in the morning, and the horse kept tied up all day without any litter till night; when he may be untied, in order to lie down; and a pitch plaister, or any sticking plaister may be laid over it, and bound on with a broad tape or bandage, to keep all close.

How to be
used.

After the blister has done running, and the scabs begin to dry and peel off, it may be applied a second time, in the same manner as before; this second application generally taking greater effect than the first, and in colts and young horses makes a perfect cure.

When

Observation.

When the spavin has been of long standing, it will require to be renewed, perhaps five or six times; but after the second application, a greater distance of time must be allowed, otherwise it might leave a scar, or cause a baldness; to prevent which, once a fortnight or three weeks is often enough; and it may in this manner be continued six or seven times, without the least blemish, and will generally be attended with success.

But the spavins that put out on older or full aged horses, are apt to be more obstinate, as being seated more inward; and when they run among the sinuities of the joint, they are for the most part incurable, as they then lie out of the reach of applications, and are arrived to a degree of impenetrable hardness.

Some cautions in regard to firing and caustics.

The usual method in these cases is to fire, directly, or to use the strongest kind of caustic blisters; and sometimes to fire and lay the blister immediately over the part; but this way seldom succeeds

Of a BONE-SPAVIN. 269

succeeds farther than putting a stop to the growth of the spavin, and is apt to leave both a blemish and stiffness behind; besides the great risk run (by the applications of these fiery and caustic medicines to the nervous and tendinous parts about the joints), of exciting violent pain and anguish, and destroying the limb.

The best and safest way therefore is to make trial of the blistering ointment above, and to continue it according to the directions there laid down, for some months, if found necessary; the horses in the intervals working moderately: the hardness will thus be dissolved by degrees, and wear away insensibly.

The blistering ointment recommended.

Where the spavin lies so deep, and runs so far into the hollow of the joint, that no application can reach it, neither firing nor medicines can avail, for the reasons above mentioned: though bold ignorant fellows have sometimes succeeded in cases of this sort (by men of judgment deemed incurable) by the application of caustic ointments

Directions for firing.

ointments with sublimate, which act very forcibly, enter deep, and make a large discharge, and by that means destroy a great part of the substance, and dissolve away the remainder.

Directions for firing. Though whoever is at all acquainted with the nature of these medicines, must know how dangerous in general their operation is on these occasions, and that a proper prepared cautery made like a fleam, under the direction of a skilful hand, may be applied with less danger of injuring either tendons or ligaments. After the substance of the swelling has been properly penetrated by the instrument, it must be kept running by the precipitate medicine, or mild blistering ointment. Where the spavin lies not deep in the joint, and the blistering method will not succeed, the swelling may be safely fired with a thin iron forced pretty deep into the substance, and then should be dressed as is above directed.

C H A P.

C H A P. XXIX.

Of a CURB and RING-
BONE.

AS a spavin rises among the bones A curb described. on the fore part of the hock, so a curb takes its origin from the junctures of the same bones, and rises on the hind part, forming a pretty large tumour over the back part of the hind leg, attended with stiffness, and sometimes with pain and lameness.

A curb proceeds from the same How cured. causes that produce spavins; viz. hard-riding, strains, blows, or kicks. The cure at first is generally easy enough effected by blistering, repeated two or three times, or oftner. If it does not submit to this treatment, but grows excessively hard, the quickest and surest way is to fire with a thin iron, making a line down the middle from top to bottom, and drawing several lines in a penniform manner pretty deep; and then to apply a mild blistering

tering plaister or ointment over it:—
This method will intirely remove it.

A jardon
described.

There is another swelling taken notice of, on the outside of the hock, which is called a *Jardon*. This commonly proceeds from blows and kicks of other horses; but frequently happens to managed horses, by setting them on their haunches: it is seldom attended with much lameness, unless it has been neglected, or some little process of the bone be broke. It should first be treated with the coolers and repellers in page 282. and 284: but if any swelling continues hard, and insensible, the best way is to blister or fire; but mild blisters alone generally succeed.

A ring-
bone de-
scribed.

The ring-bone is a hard swelling on the lower part of the pastern, which generally reaches half way round the forepart thereof, and from its resemblance to a ring, has its denomination. It often arises from strains, &c. and when behind; from putting young horses too early upon their haunches; for in that attitude

a horse throws his whole weight as much, if not more, upon his pasterns, than on his hocks.

When it appears distinctly round the pastern, and does not run down-wards toward the coronet, so as to affect the coffin joint, it is easily cured; but if it takes its origin from some strain or defect in the joint originally, or if a callosity is found under the round ligament that covers that joint, the cure is generally dubious, and sometimes impracticable; as it is apt to turn to a quittor, and in the end to form an ulcer upon the hoof.

Their
difference.

The ring-bones that appear on colts and young horses, will often insensibly wear off of themselves, without the help of any application; but when the substance remains, there needs no other remedy besides blistering, unless when by long continuance it is grown to an obstinate hardness, and then it may require both blistering and firing.

T

To

The cure. To fire a ring-bone successfully, let the operation be performed with a thinner instrument than the common one, and let the lines or razes be made not above a quarter of an inch distant, crossing them obliquely somewhat like a chain: apply a mild blister over all; and when quite dried up, the rupture plaister; and then turn the horse to grass for some time.

C H A P. XXX.

Of SPLENTS.

Splents
described.

THES E are hard excreffences that grow on the shank-bone, and are of various shapes and sizes. Some horses are more subject to splents than others; but young horses are most liable to these infirmities, which often wear off, and disappear of themselves. Few horses put out splents after they are seven or eight years old, unless they meet with blows or accidents.

A splent

A splent that arises in the middle of the shank bone is no ways dangerous; but those that arise on the back part of this bone, when they grow large and press against the back sinew, always cause lameness or stiffness, by rubbing against it: the others, except they are situated near the joints, seldom occasion lameness.

As to the cure of splents, the best way is not to meddle with them, unless they are so large as to disfigure a horse, or are so situated as to endanger his going lame. Best let alone, if they occasion no lameness.

Splents in their infancy, and on their first appearance, should be well bathed with vinegar, or old verjuice; which by strengthening the fibres, often put a stop to their growth: for the membrane covering the bone, and not the bone itself, is here thickened; and in some constitutions purging and afterwards diuretic drinks, will be a great means to remove the humidity and moisture about the limbs, which

The cure:

is what often gives rise to such excrescences.

Various are the remedies prescribed for this disorder; the usual way is to rub the splent with a round stick, or the handle of a hammer, till it is almost raw, and then touch it with oil of origanum. Others lay on a pitch plaister, with a little sublimate or arsenic, to destroy the substance: some use oil of vitriol; some tincture of cantharides: all which methods have at times succeeded; only they are apt to leave a scar with the loss of hair. Those applications that are of a more caustic nature often do more hurt than good, especially when the splent is grown very hard, as they produce a rottenness, which keeps running several months before the ulcer can be healed, and then leaves an ugly scar.

Mild blisters are to be preferred to firing.

Mild blisters often repeated, as recommended in the chapter of *Bone-Spavin*, should first be tried as the most eligible method, and will generally succeed even beyond expectation: but

Of the POLLE-VIL. 277

but if they fail, and the splent be near the knee or joints, you must fire and blister in the same manner as for the bone-spavin.

Splents on the back part of the shank-bone are difficult to cure, by reason of the back sinews covering them; the best way is to bore the splent in several places with an iron not very hot; and then to fire in the common way, not making the lines too deep, but very close together.

C H A P. XXXI.

Of the POLLE-VIL.

THE poll-evil is an abscess near the poll of a horse, formed in the sinusses between the noll-bone, and the uppermost vertebræ of the neck. The poll-evil described.

If it proceeds from blows, bruises, or any external violence, at first bathe the swelling often with hot vinegar; and if the hair be fretted off with an ouzing. How cured.

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ouzing through the skin, make use of two parts of vinegar, and one of spirit of wine; but if there be an itching with heat and inflammation, the safest way is to bleed and apply poultices with bread, milk, and elder flowers: this method, with the assistance of physick, will frequently disperse the swelling, and prevent this evil.

How
treated,
when cri-
tical.

But when the tumor is critical, and has all the signs of matter, the best method then is to forward it by applying the ripening poultices already taken notice of, till it comes to maturity, and bursts of itself; or if opened with a knife great care should be taken to avoid the tendinous ligament that runs along the neck under the mane: when matter is on both sides, the opening must be made on each side, and the ligament remain undivided.

Various
methods
of cure.

If the matter flows in great quantities, resembles melted glue, and is of an oily consistence, it will require a second incision, especially if any cavities are discovered by the finger
or

or probe ; these should be opened by the knife, the orifices made depending, and the wound dressed with the common digestive of turpentine, honey, and tincture of myrrh, and after digestion with the precipitate ointment ; or wash the sore with the following made hot, and fill up the cavity with tow soaked in it.

TAKE vinegar or spirit of wine half a pint, white vitriol dissolved in spring water half an ounce, tincture of myrrh four ounces. A drying wash.

This may be made sharper by adding more vitriol ; but if the flesh is very luxuriant, it should first be pared down with a knife before the application ; with this wash alone Mr. *Gibson* has cured this disorder without any other formality of dressing, washing with it twice a day, and laying over the part a quantity of tow soaked in vinegar, and the white of eggs beat together. This last application will serve instead of a bandage, as it will adhere close to the poll, and come off easy when there

280 *Of the* POLL-EVIL.

there is occasion to dress. Some wash with the phagædenic water, and then fill up the abscess with loose dossils of tow soaked in *Ægyptiacum* and oil of turpentine made hot, and continue this method till the cure is effected.

But the most compendious method of cure is found by observation to be by scalding, as the farriers term it, and is thus prosecuted, when the sore is foul, of a bad disposition, and attended with a profusion of matter.

The
scalding
mixture.

T A K E corrosive sublimate, verdigrease in fine powder, and Roman vitriol, of each two drams; green copperas half an ounce; honey or *Ægyptiacum* two ounces, oil of turpentine and train oil, of each eight ounces; rectified spirit of wine four ounces: mix together in a bottle.

Some make their scalding mixture milder, using red precipitate instead of the sublimate, and white vitriol instead of the blue; the following has been successfully used for this purpose,

viz.

Of the POLLE-VIL. 281

viz. half an ounce of verdigrease, half a pint of train oil, four ounces of oil of turpentine, and two of oil of vitriol.

The manner of scalding is first to clean the abscess well with a piece of sponge dipped in vinegar; then put a sufficient quantity of the mixture into a ladle with a spout, and when it is made scalding hot, pour it into the abscess, and close the lips together with one or more stitches. This is to remain in several days, and if good matter appears, and not in an over great quantity, it will do well without any other dressing, but bathing with spirit of Wine; if the matter flows in great abundance, and of a thin consistence, it must be scalded again, and repeated till the matter lessens and thickens.

These liquid corrosive dressings agree well with horses, whose fibres are stiff and rigid, and whose juices are oily and viscid; in this case they contract the vessels of the tendons on the hind part of the head and upper part of the neck, which are continually spewing

The method of scalding.

Observation.

spewing out a matter or ichor that can hardly be digested, or the profusion abated without such applications as these.

C H A P. XXXII.

Of a Fistula and Bruises on the Withers, Warbles on the Back, and Sit-Fasts.

Bruises
of the
withers,
how
caused.

BRUISES on the withers frequently impostumate, and for want of care turn fistulous; they arise often from pinches of the saddle, and should be treated with repellers; for
 The cure. this purpose bathe the tumor well with hot vinegar three or four times a day, if that does not succeed alone, an ounce of oil of vitriol may be put to a quart of vinegar, or half an ounce of white vitriol dissolved in a little water, and added to the same quantity. These are generally very effectual repellers for this purpose in horses, and will frequently prevent impostumation: When the swelling is attended with heat, smarting, and little hot watery

Of a FISTULA and 283

Watery pimples, the following mixture will then be more proper to bathe with.

TAKE two ounces of crude sal ammoniac, boiled in a quart of lime water, where that cannot be had, a handful of pearl or wood ashes may be boiled in common water; pour off the decoction when settled, and mix with it half a pint of spirit of wine: anoint the part afterwards with linseed oil, or elder ointment, to soften and smooth the skin. A repelling wash.

But when these swellings are critical, the consequence of a fever settled on this part, you must avoid the repelling method, and assist in bringing the swelling to matter by means of suppurating poultices: experienced farriers advise never to open these tumors till they break of themselves; for if they are opened before they are ripe, the whole sore will be spongy, and discharge a bloody ichor, which soon degenerates into a sordid ulcer. But take care to enlarge the openings When critical how treated. and

284 Bruises on the Withers, &c.

and pare away the lips, that your dressings may be applied easily; and avoid the ligament which runs along the neck to the withers; if a gathering forms on the opposite side, open it in the same manner, but take care they incline downwards, for the sake of depending orifices, and letting the matter flow off easily. For the method of dressing we must refer to the preceding chapter; and if the bones should be found foul, they must be dressed with tincture of myrrh till they scale of: if the fungus is very troublesome, and the discharge oily, yellow and viscid, pledgits soaked in the following made hot have been found very effectual, bathing the swelling round with spirit of wine and vinegar.

A drying
wash.

TAKE half an ounce of blue vitriol, dissolved in a pint of water; oil of turpentine, and rectified spirit of wine, of each four ounces: white wine vinegar six ounces; oil of vitriol and *Ægyptiacum*, of each two ounces.

When

When the cavities are truly fistulous, the callosities must be cut out; where it can be done, with a knife; and the remainder destroyed by corrosives. *viz.* precipitate, burnt allum, and white vitriol, as we have already observed in the chapter on *Ulcers*.

Warbles are small hard tumors Warbles described. under the saddle part of a horse's back, occasioned by the heat of the saddle in travelling, or its uneasy situation. A hot greasy dish-clout at first frequently applied, will sometimes remove them. Camphorated spirits of wine are also very effectual for this purpose to disperse them, to which a little spirit of sal ammoniac may be added. The repellents above mentioned are successfully applied in these cases, and if you are obliged to work the horse, take care your saddle is nicely chambered.

A fit-fast proceeds generally from a warble, and is the horse's hide turned horny, which if it cannot be dissolved and softened by rubbing with the mercurial A fit-fast, what.

curial ointment, must be cut out, and treated then as a fresh wound.

C H A P. XXXIII.

Of Wind-Galls, Blood and Bog-Spavins.

Wind-
galls de-
scribed.

A *Wind-gall* is a flatulent swelling, which yields to the pressure of the finger, and recovers its shape on the removal thereof: the tumor is visible to the eye, and often seated on both sides of the back sinew, above the fetlocks, on the fore legs; but most frequently on the hind legs; though they are met with in various parts of the body, wherever membranes can be so separated, that a quantity of air and serosities may be included within their duplicatures.

How
caused.

When they appear near the joints and tendons, they are generally caused by strains, or bruises on the sinews, or the sheath that covers them; which
by

by being overstretched, have some of their fibres ruptured; whence probably may ouze out that fluid which is commonly found with the included air: though where these swellings shew themselves in the interstices of large muscles, which appear blown up like bladders, air alone is the chief fluid; and these may safely be opened, and treated as a common wound.

On the first appearance of wind-galls, their cure should be attempted by restringents and bandage; for which purpose let the swelling be bathed twice a day with vinegar, or verjuice alone, or let the part be fomented with a decoction of oak bark, pomegranate and allum boiled in verjuice, binding over it, with a rowler, a woollen cloth soaked in the same. Some for this purpose use red wine lees, others curriers shavings wetted with the same, or vinegar, bracing the part up with a firm bandage.

How they should be treated.

If this method after a proper trial, should not be found to succeed, authors have advised the swelling to be pierced

Repeated blistering recom- mended.

pierced with an awl, or opened with a knife; but mild blistering has in general the preference given to these methods; the including fluids being thereby drawn off, the impacted air dispersed, and the tumor gradually diminished. A little of the blistering ointment should be laid on every other day for a week, which brings on a plentiful discharge, but generally in a few days is dried up, when the horse may be put to his usual work; and the blistering ointment renewed in that manner once a month or oftner, as the horse can be spared from business, till the cure is compleated. This is the only method to prevent scars, which firing of course leaves behind, and unless skillfully executed, too often likewise a fullness on the joint with stiffness; the mild blistering ointment, where the sublimate is left out, is the properest for this purpose.

A blood
spavin de-
scribed.

A *blood-spavin* is a swelling and dilatation of the vein that runs along the inside of the hock, forming a little soft swelling in the hallow part, and
is

Of Wind-Galls, Blood and 289

is often attended with a weakness and lameness of the hock.

The cure should be first attempted The cure.
with the restringents and bandage
above recommended which will con-
tribute greatly to strengthen all weak-
nesses of the joints, and frequently will
remove this disorder, if early applied:
but if, by these means the vein is not
reduced to its usual dimensions, the
skin should be opened, and the vein
tied with a crooked needle and wax
thread passed underneath it, both
above and below the swelling, and
the turgid part suffered to digest away
with the ligatures: for this purpose
the wound may be daily dressed with
turpentine, honey and spirit of wine,
incorporated together.

A *bog-spavin* is an encysted tumor
on the inside the hough, or according
to Dr. *Bracken*, a collection of brownish
gelatinous matter, contained in a bag,
or cyst, which he thinks to be the
lubricating matter of the joint altered,
the common membrane that incloses
it, forming the cyst: this case he has
U taken

A bog
spavin de-
scribed.

The
operation
and cure.

taken the pains to illustrate in a young colt of his own, where he says, When the spavin was pressed hard on the inside the hough, there was a small tumor on the outside which convinced him the fluid was within side the joint: he accordingly cut into it, discharged a large quantity of this gelatinous matter, dressed the sore with dossils dipped in oil of turpentine, putting into it, once in three or four days, a powder made of calcined vitriol, allum and bole: by this method of dressing the bag sloughed off and came away, and the cure was successfully compleated without any visible scar.

Recom-
mended
in obsti-
nate wind-
galls.

This disorder, according to the above description, will scarcely submit to any other method, except firing, when the cyst ought to be penetrated to make it effectual; but in all obstinate cases that have resisted the above methods, both the cure of this, and the swellings called wind-galls should, I think, be attempted in this manner. If through the pain attending the operation or dressings, the joint should swell and inflame, foment it twice a day,

day, and apply a poultice over the dressings till it is reduced.

C H A P. XXXIV.

Of Mallenders and Sallenders.

Mallenders are cracks in the bend of the horse's knee, that discharge a sharp indigested matter; they are often the occasion of lameness, stiffness, and the horse's tumbling. Mallenders described.

Sallenders are the same distemper, situate on the bending of the hough, and occasion a lameness behind. Sallenders what.

They are both cured by washing the parts with a lather of soap warmed, or old chamberlye; and then applying over the cracks a strong mercurial ointment spread on tow, with which they should be dressed night and morning till all the scabs fall off: if this should not succeed, anoint them night and morning with a little of the following,

292 *Of Lampas, Barbs, &c.*

following, and apply the above ointment over it.

• TAKE hogs lard two ounces;
 sublimate mercury two drams.

Take the next from *Gibson*, which is to be depended on.

Æthiops mineral half an ounce;
white vitriol one dram ; soft
green soap six ounces.

Anoint with this often, but first clip away the hair, and clear the scabs. On their drying up, it may be proper to give a gentle purge or two ; or the nitre balls may be taken advantageously, for a fortnight, or three weeks.

C H A P. XXXV.

Of Lampas, Barbs, and Wolves Teeth.

The lampas, described.

THE *Lampas* is an excreffence in the roof of the horse's mouth, which is sometimes so luxuriant that it grows above the teeth, and hinders his

his feeding. The cure is in lightly The cure.
cauterising the flesh with a hot iron,
taking care that it does not penetrate
too deep, so as to scale off the thin
bone that lies under the upper bars :
the part may be anointed with burnt
allum and honey, which is proper for
most sores in the mouth.

Barbs are small excrescences under Barbs
the tongue, which may be discovered what, and
by drawing it aside, and are cured how cured
by cutting close off, and washing
with brandy, or salt and water.

A horse is said to have *wolves teeth*, Wolves
when the teeth grow in such a manner, teeth,
that their points prick, or wound what.
either the tongue, or gums, in eating.
Old horses are most liable to this in-
firmity, and whose upper overshoot
the under teeth in a great degree.

To remedy this evil you may either The cure.
chop off the superfluous parts of the
teeth with a chizzel and mallet, or
file them down, which is the better
way, till you have sufficiently wasted
them.

Of the GREASE.

The
grease to
be confi-
dered as a
disorder of
the vessels
as well as
the blood.

IN order to treat this disorder with some propriety (without having recourse to *humours* falling down for its explanation) I shall consider it as arising from two different causes; a fault or relaxation in the vessels, or a bad disposition in the blood and juices; but unless the reader has some idea of the blood's circulation, or will give himself a little trouble to obtain it, this doctrine will be of little use to him, and he must be content to be still imposed on with the usual cant of *humours*. We have already explained our meaning on this subject in a preceeding chapter, and shall here only observe, that the blood and juices (or *humours*, for there are always some in the best state of blood) are brought to the extreme parts by the arteries, and returned by the veins; in which latter the blood is to rise in perpendicular columns, to return the circulating fluids from the extremities: hence swellings

swellings in the legs of horses may easily be accounted for, from a partial stagnation of the blood and juices in the finer vessels, where the circulation is most languid; and especially when there is want of due exercise, and a proper muscular compression on the vessels to push forward the returning blood, and propel the part and half stagnating fluids through their vessels; in short the blood in such cases cannot so readily ascend as descend, or a greater quantity is brought by the arteries than can be returned by the veins.

How swellings in the limbs are occasioned

The grease then considered in this light, must be treated as a local complaint, where the parts affected are alone concerned, the blood and juices being yet untainted, and in good condition; or as a disorder where they are both complicated: but when it is an attendant on some other distemper, as the farcy, yellows, dropsy, &c. such diseases must first be cured before the grease can be removed. In the former case moderate exercise, proper dressing, cleanliness, and external applications, will answer the purpose;

The grease should sometimes be treated as local.

in

in the latter, internals must be called in to our assistance, with proper evacuations.

How
swelled
heels
should be
treated.

When a horse's heels are first observed to swell in the stable, and subside, or go down, on exercise; let care be taken to wash them very clean every time he comes in, with soap-suds, chamberlye, or vinegar and water, which, with proper rubbing, will frequently prevent, or remove this complaint: or let them be well bathed twice a day with old verjuice, or the following mixture, which will brace up the relaxed vessels; and if rags dipped in the same are rowled on with a proper bandage, for a few days, it is most likely the swellings will soon be removed by this method only, as the bandage will support the vessels, till they have recovered their tone. To answer this end also, a laced stocking made of strong canvass, or course cloth, neatly fitted to the part, would be found extreamly serviceable, and might easily be contrived by an ingenious mechanick,

TAKE

TAKE rectified spirit of wine four ounces, dissolve in it half an ounce of camphire, to which add wine-vinegar or old verjuice six ounces; white vitriol dissolved in a gill of water, one ounce; mix together, and shake the phial when used. A repelling wash.

But if cracks or scratches are observed which oufe and run, let the hair be clipped away, as well to prevent a lodgment (which becomes stinking and offensive by its stay) as to give room for washing out dirt or gravel, which if suffered to remain there, would greatly aggravate the disorder.

When this is the case, or the heels are full of hard scabs, it is necessary to begin the cure with poultices, made either of boiled turneps and lard, with a handful of linseed powdered; or oatmeal and rye flower, with a little common turpentine, and hogs lard boiled up with strong beer grounds, or red wine lees. The digestive ointment Poultices often necessary.

ment being applied to the sores for two or three days, with either of these poultices over it, will by softening them, promote a discharge, unload the vessels, and take down the swelling; when they may be dried up with the following:

A drying
water.

TAKE white vitriol and burnt alum, of each two ounces; Ægyptiacum one ounce; lime-water a quart or three pints: wash the sores with a sponge dipped in this, three times a day, and apply the common white ointment spread on tow; to an ounce of which may be added two drams of sugar of lead.

Or the following wash and ointment may be used for that purpose.

Another
drying
water.

TAKE half an ounce of Roman vitriol, dissolve it in a pint of water; then decant off the clear into a quart bottle, add half a pint of camphorated spirits of wine, the same quantity of vinegar, and two ounces of Ægyptiacum.

TAKE

T A K E honey four ounces, white or red lead powdered two ounces, verdigrease in fine powder one ounce; mix together. A drying ointment.

Some for this purpose apply allum-card; others a strong solution of allum in verjuice, with honey: and many of these forms may easily be contrived. But let it be remembered, that as soon as the swelling is abated, and the moisture lessened, it would be very proper to keep the legs and pasterns rolled up with a firm bandage, or linnen rowler two or three fingers wide, in order to brace up the relaxed vessels, till they have recovered their natural tone.

This method is generally very successful when the distemper is only local, and requires no internal medicines: but if the horse be full and gross, his legs greatly gorged, so that the hair stares up, and is what some term *pen-feathered*, and has a large stinking discharge from deep foul sores, you may expect to meet with great

How treated when from an internal cause.

great trouble, as these disorders are very obstinate to remove, being often occasioned by a poor dropfical state of blood, or a general bad disposition in the blood and juices.

The cure in this case, if the horse is full and fleshy, must be begun by bleeding, rowels and repeated purging; after which diuretic medicines are frequently given with success. Thus,

A diuretic
drink.

TAKE four ounces of yellow rosin, one of sal prunellæ; grind them together with an oiled pestle, add a dram of oil of amber, and give in a quart of forge water every morning, fasting two hours before and after taking, and ride moderately.

As this drink is found very disagreeable to some horses, I would recommend the nitre balls in its stead, given to the quantity of two ounces a day, for a month or six weeks, mixed up with honey, or in his feeds: Take the following also for that purpose.

YELLOW

YELLOW rosin four ounces, salt of tartar and sal prunellæ, of each two ounces; Venice soap half a pound; oil of juniper half an ounce; make into balls of two ounce weight, and give one every morning.

Diuretic balls.

Or,

TAKE nitre two ounces; camphor one dram, honey enough to make into a ball; give as the former.

The legs in this case should be bathed or fomented, in order to breathe out the stagnant juices, or to thin them, so that they may be able to circulate freely in the common current. For this purpose foment twice a day with the discutient fomentation, p. 244. in which a handful or two of wood ashes has been boiled; apply then the above poultices, or the following, till the swelling has subsided, when the sores may be dressed with the green ointment till they are properly digested, and

Fomentations sometimes necessary.

Of the GREASE.

and then dried up with the water and ointment above recommended.

**A
discauent
poultice.**

TAKE honey one pound, turpentine six ounces, incorporate with a spoon; and add of the meal of fenugreek and linseed each four ounces; boil in three quarts of red wine lees to the consistence of a poultice; to which add, when taken from the fire, two ounces of campher in powder; spread it on thick cloths, and apply warm to the legs, securing it on with a strong rowler.

If the sores are very foul, dress them with two parts of the wound ointment and one of *Ægyptiacum*; and apply the following, spread thick on cloths, and rowled on.

**A
cleansing
poultice.**

TAKE of black soap a pound, honey half a pound, burnt allum four ounces, verdigrease powdered two ounces, wheat-flower a sufficient quantity.

If

If the diuretic balls should not succeed, they must be changed for the antimonial and mercurial alteratives, already mentioned; but turning a horse out into a field, where he has a hovel or shed to run to at pleasure, would greatly contribute to quicken the cure, and indeed would in general effect it alone; but if this cannot be complied with, let him be turned out in the day-time.

If the horse is not turned out, a ^{A large} large and convenient stall is absolutely ^{stall ne-} necessary, with good dressing and ^{cessary.} care: this stall should be six feet wide, that a tall horse may shoot out his legs at length, so that the blood may circulate freely, without meeting with resistances, which it naturally must, when a horse lies all on a heap, or with his legs under him: nor should the stable be paved with too great a declivity, for if the horse stands too low with his hind legs, most of his weight will rest upon them, and give him the grease, especially if he is at all inclined to be gourdy.

The

A horse
lying
down, of
great ser-
vice.

The last thing we shall recommend, is a method to oblige a horse to lay down in the stable. This undoubtedly is of the utmost consequence, as it will not a little contribute to the removal and cure of this disorder; for by only changing the position of his legs, a freer circulation would be obtained, and the swelling taken down: whereas in general it is greatly aggravated by the obstinacy of the horse, who refuses to lie down at all (probably from the pain it gives him to bend his legs for that purpose;) by which means the stiffness and swelling increases, till the over-gorged and distended vessels are obliged to give way, and by bursting, discharge the fluids which should circulate through them.

How to
make him
lay down.

The method proposed by Dr. *Bracken* is to tie up one of his fore feet close, and to fasten a cord or small rope about the other fetlock, bringing the end of it over the horse's shoulders; then let him be hit, or kicked with your foot behind that knee, at the same time pulling

pulling his nose down strongly to the manger, you will bring him upon his knees, where he should be held till he is tired, which cannot be long; but if he does not lie down soon, let him be thrust sideways against his quarters to throw him over: by forcing him down several times in this way, you may teach him to lie down at the same words you first used for that purpose. —Other means are recommended for this purpose, such as tying the horse's tail with a cord, touching his skin with oil of vitriol, &c.

Thus have I endeavoured to distinguish this disorder, and to point out when and where internals are necessary, and in what cases the cure may be effected by external applications only.

C H A P. XXXVII.

*Of Scratches, Crown-Scabs,
and Rat-Tails.*

Scratches in the heels have so much affinity with the grease, and are so often concomitants of that distemper,
X that

306 Of Scratches, Crown-Scabs,

Scratches,
how treat-
ed.

that the method of treating them may be selected chiefly from the preceeding chapter ; which at first should be by the linseed and turnep poultice, with a little common turpentine, to soften them, and relax the vessels; the green ointment may then be applied for a few days to promote a discharge, when they may be dried up with the ointments and washes recommended in the above chapter. It is best afterwards to keep the heels supple, and softened with curriers dubbing, which is made of oil and tallow. This will keep the hide from cracking, and be as good a preservative as it is to leather; and by using it often before exercise, will prevent the scratches, if care is always taken to wash the heels with warm water, when the horse comes in. When they prove obstinate, and the sores are deep, use the following; but if any cavities or hollow places are formed, they should first be laid open, for no foundation can be laid for healing, till you can dress to the bottom.

An oint-
ment for
obstinate
scratches.

TAKE Venice turpentine four
ounces, quicksilver one ounce ;
incorpo-

incorporate well together by rubbing some time, and then add honey and sheeps suet, of each two ounces.

Anoint with this once or twice a day; and if the horse is full or fleshy you must bleed and purge; and if the blood is in a bad state, the alteratives must be given to rectify it.

The crown-scab is an humour that breaks out round the coronet, which is very sharp and itching, and attended with a scurfyness: sharp waters prepared with vitriol, are generally used for the cure: but the safest way is first to mix marshmallow and yellow basilicon, or the wound ointment, equal parts, and to spread them on tow, and lay all round the coronet. A dose or two of physick may be very proper, with the diuretic drinks, p. 300. and the alteratives above recommended, in rebellious cases. *vide* Chap. on alteratives.

The crown scab, how treated.

Rats-tails are excrescences which creep from the pastern to the middle of

Rat tails what, and how cured

Of Narrow Heels, and

of the shanks, and are so called from the resemblance they bear to the tail of a rat. Some are moist, others dry; the former may be treated with the drying ointment and washes, p. 298. the latter with the mercurial one, p. 105. If the hardness does not submit to the last medicine, it should be pared off with a knife, and dressed with turpentine, tar and honey, to which verdigrease or white vitriol may occasionally be added; but before the use of the knife you may apply this ointment:

TAKE black soap four ounces, quick-lime two ounces, vinegar enough to make an ointment.

C H A P. XXXVIII.

Of the Diseases of the F E E T.

Of Narrow Heels, and Binding of the Hoof, &c.

Narrow
heels often
ruined by
bad shoe-
ing.

THOUGH narrow heels in general arise from a natural defect, yet they are often rendered incurable by bad shoeing; for some farriers hollow

hollow the quarters so deep and thin, **that** they may be pinced in with the fingers, and think by that method to widen them out by a strong broad webbed shoe; but this turns them narrow above, wires their heels, and dries, or rots the frog. The best way in all such cases is not to hollow the foot in shoeing, and to pare nothing out, but what is rotten or foul; if the foot be hard and dry, or inclined to be rotten, bathe it often with chamberlye, or boil two pounds of linseed bruised in two quarts of the same, to the consistence of a poultice, then add six ounces of soft green soap, and anoint the foot with it every day, rubbing a little of it upon the foal.

How they
should be
managed.

Or,

TAKE bees wax two ounces, fresh butter or lard six ounces, tar one ounce, as much linseed or neats-foot oil as will make it the consistence of a smooth ointment.

An oint-
ment for
the hoofs.

The hoofs if too dry may be anointed with the above, or with lard only;
some

How dry
hoofs
should be
treated.

some for this purpose use tar, tallow and honey, but most greasy and unctuous applications will answer this intention; the feet also if too dry, may be stuffed with bran and lard heated, or worked up together in the hand; which is very proper also to apply every night, when your horse is travelling in hot weather, on roads that are dry and hard; cow-dung likewise is a proper stuffing for the feet, but vinegar should cautiously be mixed with it; for though it is a known cooler, it is a remarkable restraining, which in this case would be extremely prejudicial; instead of which a print of fresh butter may be first applied to the sole, and the cow-dung laid over it.

How
moist
hoofs
should be
treated.

There is another disorder the hoofs are subject to which is their being too soft and moist; this may be constitutional, or proceed from going much in wet and marshy grounds, standing constantly in wet litter, or any infirmity that may bring too great a moisture into the feet. In this case the horse's hoofs may be bathed every day

day with warm vinegar, verjuice, copperas water, and such like reſtringents; to which may be added galls, allum, &c. remembering to let the horſe ſtand conſtantly dry.

We ſay a horſe is hoof-bound, when the hoof is ſo tight round the inſtep, that it turns the foot ſomewhat into the ſhape of a bell. This is cauſed ſometimes by ſhoeing as above, to widen the heel, and ſometimes by cutting the toes down too much, which gives that ſhape to the foot, and cauſes the horſe to go lame.

To remedy this diſorder, Mr. *Gibſon* recommends the following method; Let the foot be drawn down from the coronet almoſt to the toe with a drawing knife, making ſeven or eight lines or razes through the hoof, almoſt to the quick; afterwards keep it charged with pitch or roſin, till the lines are wore out in ſhoeing, which will require ſeveral months; therefore horſes are generally turned out to graſs. Before we cloſe this chapter, take theſe ointments for the feet and hoofs, *viz.*
Sweet

Of Sand-Cracks

Oint-
ments for
the feet
and hoofs.

Sweet oil, rosin, and hogs lard, each
a pound, bees wax two ounces,
honey a pound, melt together,

Or,

TAKE basilicon one pound, wax
and neats-foot oil, of each half
a pound, rosin four ounces, mix
together.

C H A P. XXXIX.

Of Sand-Cracks and Quittors.

A sand-
crack de-
scribed.

WHAT is called a sand-crack. is
a little cleft on the outside the
hoof; if it runs in a strait line down-
wards, and penetrates through the bony
part of the hoof, it often proves trou-
blesome to cure; but if it passes through
the ligament that unites the hoof with
the coronet, it is then apt to breed a
quittor, or false quarter, which are
dangerous.

How
treated.

When the crack only penetrates
through the hoof, without touching
the ligament. unless the hoof be
hollow

hollow, it may easily be cured, by rasping only the edges smooth, and applying thick pledgits of basilicon, and binding them down with a piece of soft list; if some precipitate be added to it, this medicine will be improved thereby, and in general answers the end, without any other application. But if you perceive any hollownes under the hoof, and that the cleft has a tendency to penetrate through the gristle or ligament, the best method in that case is to fire out of hand with irons that are not made too hot, first rasping very thin and wide, from both sides of the cleft, The horse must not carry any weight for some time, but be turned out to grass, or wintered in a good farm yard.

A quittor is an ulcer formed between the hair and hoof, usually the inside quarter of a horse's foot; it arises often from treads and bruises, sometimes from gravel, which by working its way upwards, lodges about the coronet: if it is only superficial, it may be cured with cleansing dressings, bathing the coronet every day

A quittor described.

day with spirit of wine, and dressing the sore with the precipitate medicine.

How
cured in
particular
cases.

But if the matter forms itself a lodgment under the hoof, there is no way then to come at the ulcer, but by taking off part of the hoof; and if this be done artfully and well, the cure may be affected without danger.

When the matter happens to be lodged near the quarter, the farrier is sometimes obliged to take off the quarter of the hoof, and the cure is then, for the most part, but palliative; for when the quarter grows up, it leaves a pretty large seam, which weakens the foot; this is what is called a false quarter, and a horse with this defect, seldom gets quite sound.

How
cured
when the
coffin-
bone is
affected.

If the matter by its confinement, has rotted the coffin-bone, which is of so soft and spongy a nature, that it soon becomes so; you must enlarge the opening, cut away the rotten flesh, and apply the actual cautery, or hot iron pointed pyramidically, and dress the bone with dossils of lint dipped in tincture

Of Wounds in the Feet, &c. 315

uncture of myrrh, and the wound with the green or precipitate ointment. When the sore is not enlarged by the knife, which is the best and less painful method, pieces of sublimate are generally applied, which bring out with them cöres, or lumps of flesh; blue vitriol powdered, and mixed with a few drops of the oil, is used also for this purpose, and is said to act as effectually, and with less pain and danger; during the operation of these medicines, the foot, I think, should be kept in some soft poultice, and care should be taken, during the whole dressing, to prevent proud flesh rising, which otherwise will not only retard the cure, but prevent a firm and sound healing.

CHAP. XL.

Of Wounds in the Feet, from Nails, Gravel, &c.

Accidents of this sort are very common, and sometimes for want of early care, prove of bad consequence; Wounds in the feet should particularly be attended to.

Of Wounds in the Feet,

sequence, for the parts being naturally tender, are very susceptible of inflammation; and when matter is once formed, if a free discharge is not procured, the bone which is spongy soon becomes affected, and the whole foot is then in danger.

In what
manner
they
should be
treated in
general.

When any extraneous bodies, such as nails, stubs, thorns &c. have passed into the horse's foot, you should endeavour to get them out as soon as possible; and after washing the part with oil of turpentine, dress the hole with lint dipped in the same melted down with a little tar; the foot may be stopped up with bran and hogs lard heated together, or put it into the turnep or any soft poultice: this method is generally successful, when the nail, &c. is intirely removed; but if any piece or particle should remain behind, which may be suspected by the degree of pain, and discharge of matter; after paring away the foal as thin as possible, introduce a bit of sponge tent, in order to enlarge the hole, that it may be drawn out by a small pair of forceps, or brought away by

by digestion, If this method should not succeed, but the lameness continues with a discharge of a thin, bloody, or stinking matter, you must no longer delay opening the wound with a drawing knife to the bottom, and then dress as above directed, or with the turpentine digestive divided with the yolk of an egg, and a little tincture of myrrh; afterwards with the precipitate medicine.]

If the lameness proceeds from pricking in shoeing, the foot should be pared thin on the wound side, and after dressing with the tar and turpentine, let it be stopped up with the poultices above mentioned, or with two ounces of common turpentine melted down with four of lard; should this method not succeed, follow the above directions.

When gravel is the cause, it for the most part follows the nail holes, and if it gets to the quick, cannot return, unless it is scraped out; for the make of the hoof, which is spiral like an ear of corn, favours its ascent, so that the gravel

When
from
pricking
in shoeing

When
from
gravel.

gravel continues working upwards towards the coronet, and forms, what the farriers call a quittor-bone.

The cure.

The nature of this disorder points out the method of cure, which is to be as expeditious and careful as possible in getting out the gravel; if it is found difficult to effect this, let the foot or hoof be pared thin, and if necessary, the wound enlarged to the bottom, and then dressed up as usual. Should the coffin-bone be affected, you must follow the directions laid down in the preceeding chapter, remembering always to bathe the hoof with vinegar or repellers, in order to allay the heat and inflammation, which often happen on such occasions; and should the pain and anguish affect the legs, treat them in the same manner, or charge the leg and pastern with a mixture of wine lees and vinegar.

Of the Running Thrush, &c. 319

CHAP. XLI.

*Of the Running Thrush, and
Canker, and Loss of Hoof.*

THE thrush or frush is an im-^{The}postume that sometimes gathers ^{running}in the frog; or a scabby and ulcerous ^{thrush}disposition, which sometimes causes it ^{described.}to fall off. When the discharge is natural, the feet should be kept clean, but no drying washes made use of, it being thought as unsafe to repel some of these discharges, as to cure some sweaty feet,

When an impostume or gathering appears, the safest way is to pare out ^{The}the hard part of the frog, or whatever ^{method of}appears rotten, and wash the bottom ^{cure.}of the foot two or three times a day with old chamberlye; this is the safest and best way of treating them. But when a horse has been neglected, and there is a strong flux to the part, it is apt to degenerate into a canker, to prevent which, use the following:

TAEK

320 *Of the Running Thrush, and*

A wash
for the
thrush.

T A K E spirit of wine and vinegar,
of each two ounces, tincture
of myrrh and aloes one ounce;
Ægyptiacum half an ounce;
mix together.

Bathe the thrush with this, where-
ever there appears a more than ordi-
nary moisture, and lay over the ulcer
a little tow dipped in the same. The
purges and diuretics recommended in
the grease should be given at this time,
to prevent the inconveniencies that
the drying up these discharges fre-
quently occasion.

A canker
described,
with the
cure.

A canker in the foot proceeds for
the most part from thrushes, when they
prove rotten and putrid, though many
other causes may produce this disorder.
The method used by farriers for the
cure, is generally with hot oils, such
as vitriol, aqua fortis, and butter of
antimony, which are very proper to
keep down the rising flesh, and should
be used daily till the fungus is sup-
pressed, when once in two days will
be sufficient, strewing fine precipitate
powder

Canker, and Loss of Hoof. 321

powder over the new grown flesh;
till the foal begins to grow.

There is one great error committed often in this cure, that is, in not having sufficient regard to the hoof; for it should not only be cut off, wherever it presses on the tender parts, but should be kept soft with linseed oil; and as often as it is dressed, bathe the hoof all round the coronet with chamberlye. Purgings is very proper to compleat the cure.

Observation.

The loss of the hoof may be occasioned by whatever accident may bring an impostumation in the feet, whereby the whole hoof becomes loosened, and falls off from the bone. If the coffin bone remains uninjured, a new hoof may be procured by the following method.

The loss of the hoof, how repaired.

The old hoof should by no means be pulled off, unless some accident happens that requires its removal, for it serves as a defence to the new one, and makes it grow more smooth and even, and indeed nature will in gene-

Y

ral

322 *Of Venomous Bites from*

ral do this office at her own proper time.—On the removal of the hoof, a boot of leather with a strong sole, should be laced about the pastern, bolstering and stopping the foot with soft flax, that the tread may be easy: dress the sore with the wound ointment, to which should be added the fine powders of myrrh, mastich, and olibanum. If this medicine should not be sufficient to prevent a fungus, burnt allum or preecipitate may be added to it, and the luxuriant flesh may be daily washed with the sublimate water.

C H A P. XLII.

Of Venomous Bites from Vipers and Mad Dogs.

The
action of
poisons,
not to be
accounted
for.

TH E action of poisons on animal bodies has hitherto appeared of so intricate a nature, and the nervous system, which is so principally affected by them, so imperfectly understood, that it is no wonder the most ingenious authors

Vipers and Mad Dogs, 323

authors have given so little satisfaction in treating this subject; we shall therefore only offer such remedies and methods of cure, as stand recommended to us on the best authority.

The first intention is to prevent the poison mixing with the blood; this possibly might be effected, if the part would admit of being instantly cut out with a knife; that cupping glasses might be applied to empty the vessels, and the wound afterwards cauterised with a hot iron. The surrounding parts should afterwards be well bathed with sallad oil, and the sore dressed once or twice a day with hot *Ægyptiacum*. It is necessary also that it should be kept open for forty days at least, with a piece of sponge or orrice root smeared over with the precipitate ointment, or that prepared with Spanish flies: these seem to be the chief external remedies to be depended on.

Internally, for bites from vipers, may be given cordial medicines, such as Venice treacle and salt of hartshorn, an ounce of the former with a dram

The external method of cure.

The internal remedies for bites from vipers.

Of Venomous Bites *from*

of the latter every night for a week; or, where it can be afforded, a proportionate quantity of the famous Tonquin remedy of musk and cinabar, so much recommended in bites from infected animals.

Dr. Mead's
method
described,
for bites
from mad
dogs.

To prevent the tragical effects of the bite from a mad dog, give the above medicines; or the method recommended by Dr. Mead, may be pursued in the following manner: take away three quarts of blood, and give the horse night and morning half an ounce of ash-coloured ground liver wort, and a quarter of an ounce of pepper; this remedy may be continued a week or ten days, when the horse should be plunged into a river or pond every morning for a month or six weeks.

Dr.
James's
mercurial
method
recom-
mended
for the
same.

The following mercurial method having been found successful both in dogs and men; I thought proper to recommend it as a remedy for horses, and indeed think it more to be depended on than most others. Dr. James has given a full account of it in the
Philoso-

Philosophical Transactions, to which I refer the curious reader for particulars, observing only that the quantity of turbith given so successfully to dogs, was seven grains the first dose, and twelve the second, at the distance of twenty four hours each, which was repeated every other day for some little time: this course was also repeated at two or three succeeding fulls and changes of the moon.

The same method may be observed in giving this medicine to a horse, the quantity only being augmented to a scruple and half a dram each dose; the directions laid down in the chapter on *Farcy*, being attended to. There are various other remedies directed for these purposes, but the present, I think, are chiefly to be relied on.

We shall close this chapter however with the following, which has long been in great esteem, and is by some thought to be an infallible cure for the bite of a mad dog.

TAKE

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A
drink for
venomous
bites.

TAKE fix ounces of rue ; Venice treacle, garlick, and tin scraped, of each four ounces ; boil in two quarts of ale over a gentle fire, to the consumption of half ; strain off from the ingredients, and give the horse four or five ounces every morning fasting.

The ingredients may be beat in a mortar, and applied daily to the wound as a poultice.

CHAP. XLIII.

Of Gelding, Docking, and Nicking of Horses.

TO treat of the operations in farriery, is somewhat foreign to our original design ; but as we have a new apparatus and method to offer, concerning the Nicking of horses, we were induced also to make some few observations on Gelding and Docking, especially as the symptoms of the latter,

latter, and manner of treating them, are on similar principles.

Without entering into particulars, Some useful observations on gelding. we shall only observe that the *Gelding* of a foal, is an operation of little consequence, and seldom attended with any bad symptoms; yet the extirpating the stones of a full grown horse, requires the care and ingenuity of a good artist. The usual method of securing the spermatic vessels, is by cauterising their extremities, and filling up the scrotum or bag with salt: this method, though successfully practised on young colts, should by no means be trusted to, in grown horses; but after the scrotum is opened, and the stone turned out, a strong waxed thread should be tied round the chord, and then the testicle cut off: this undoubtedly is the most effectual way to secure The ligature preferred to the uterus. the vessels, as the eschar from burning may by accidents be removed, and a profuse bleeding ensue before it is discovered.

The wound may be dressed with the usual digestive; but should a fever, or

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The manner of dressing, and general treatment.

or inflammation ensue, bleed largely, and follow the directions laid down in the chapter on *Fevers*: should the belly and sheath swell, foment twice a day, and bathe often with oil of roses and vinegar, till the tumor subsides and wound digests.

Some general directions in relation to docking.

In regard to the *Docking* of horses, though it is an operation so common, and in general so successfully executed, yet, as it does now and then miscarry, by an inflammation and gangrene succeeding, which sometimes are communicated to the bowels: we have thought proper to lay down some general rules and directions, both in relation to the operation, and the subsequent manner of treating the symptoms; and as these most probably arise from the tendons of the tail, suffering by an injudicious application of the knife or searing iron, or an improper season for the operation, we shall first observe, that the very hot or cold months are by no means proper for that purpose, for reasons we apprehend obvious to every one: the next observation we shall make is that

that it should always be performed by incision, or the chopping engine; the knife being passed through the tail from above, while it lays on the block; for when the cutting instrument is applied underneath, the blow is then given on the tail, which of course by bruising the tendons, may well be suspected to occasion bad symptoms: The last observation we shall make is in regard to the searing iron, which should be smooth and better polished than those generally used, and ought to be rubbed clean on a woollen cloth, before the application to the stump, otherwise the sparks which fly from the iron, are apt to occasion great pain, with swelling both of the sheath and fundament; nor should it ever be applied flaming hot, for then it brings the burnt part away with it, and as it requires a re-application, in order to form a new eschar on the vessels, the bone by these means is frequently left too much exposed, so that it is often a considerable time before it is covered.

Cautions
in searing.

Farriers

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The
manner of
dressing
the stump,
and gene-
ral treat-
ment.

Barriers seldom apply any thing to the stump; which need only be anointed with the wound ointment, and when the eschar is digested off, may be washed with allum or lime-waters; but if an inflammation ensues, with a discharge of thin matter, the serpentine digestive with tincture of myrrh, p. 253. should be applied, with the bread and milk poultice over it; bathe the rump often with oil of roses and vinegar, bleed largely, and observe the cooling method laid down in the chapter on *Fevers*; and if the fundament is swelled, and the inflammation at all suspected to be communicated to the bowels, let cooling emollient glysters particularly be injected two or three times a day. Should a gangrene ensue, add *Aegyptiacum* to your dressings, and spirits to the fomentation; and apply over all, the strong-beer poultice with London treacle twice a day.—These seem to be the only means to be depended on, and will without doubt, in general be successful, when applied in due time.

Before

Before we describe the operation of *Nicking*, it may be necessary to inquire ^{Nicking, how ac-} ^{counted} ^{for.} how the effect of it (the elevation of the tail) is brought about; and in order to know this, and judge with propriety of the operation, we must consider the tail as elevated or lifted up, by one set of muscles, and depressed or pulled down by another.

It is somewhat remarkable, that *Snape, Saunier, and Gibson*, who in ^{Observation-} general are pretty exact in their anatomical descriptions, should omit, in their account of the muscles of a horse, to describe those of the tail; for which reason as a proper opportunity has not offered, to supply this omission, by making a compleat dissection, with that accuracy we could have wished; it is hoped the subsequent imperfect description will be excused, as it was taken only from a tail, that was dissected after docking.

Here we observed, that the muscles which elevate the tail, are more numerous, large, and strong, than ^{An anatomical description of the tail.} those

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those that depress it; that they are closely connected to the bones of the tail by fleshy fibres, and terminate in strong tendons, at the extremity: but the muscles of the latter soon form into tendinous expansions, and three large tendons which are inserted into the latter bones of the tail: there are several other small tendons, which run laterally, whose use most probably is to move the tail sideways. The arteries are two in number, and run above the bones of the tail, consequently easily avoided by a dextrous hand, as they cannot readily be wounded by the knife, in dividing the tendons necessary to be cut in this operation.

The
operation
described.

The art of nicking horses then chiefly consists in a transverse division of these depressing tendons of the tail, and such a position afterwards, as will keep their extremities from coming again into contact; so that an intervening callus fills up the vacuity: by these means an additional power is given to the antagonist muscles, *viz.* the elevators; the counter-action of the depressors

Nicking of Horses.

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depressors being manifestly abated by the division of the tendons, and the intervention of the callus,

The usual method of supporting the tail by a pulley and weight, is liable to many exceptions, the extremities of the divided tendons not being by that method kept sufficiently asunder; the situation of the tail being rather inclined to a perpendicular, than a curved direction: this position too is liable to many variations, from the different movements of the horse, and is the reason that the tail frequently inclines to one side, as the nick may heal up faster on one side than the other; the disagreeable situation the horse must stand in, with a weight constantly hanging to his tail, is another material objection; besides the necessity of removing it when the horse is exercised, or taken out to water.

The inconveniences of the old method.

To remedy these inconveniences, and perfect this operation, a very ingenious gentleman, who had thoroughly considered it, has been so kind as

A new method recommended.

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to favour me with a draught, and description of a machine, he contrived for that purpose; which has frequently been practised with the expected success, and indeed at first view appears in every respect calculated to correct all the defects in the old one: as I doubted not its reception being perfectly agreeable to the publick, I have ordered a plate to be engraved, which, with the annexed description, will, I hope, make it very familiar and intelligible to every capacity.

Observations in regard to the operation.

In regard to the operation, it is worth notice, that the extremities of the tendons, which jut out in the operation need not here be cut off, as is customarily done; the number of the incisions must be in proportion to the length of the tail, but three in general are sufficient. The most approved method of dressing at first, is with powdered rosin and spirit of wine, applying a soft dossil of lint or tow, dipped in the same, between each nick, and lapping the tail up with a linnen cloth and broad fillet; which the next morning should be cut open down the back

back part of the tail, and the morning after be gently taken off; when it will be proper to plat the hairs, in order to keep them clean, and to set the tail, as will be directed in the plate and references.

Every two or three days the tail should be let down, and the upper part next the rump bathed with hot vinegar; and if it begins to crack, and the hair comes off, a little tincture of myrrh will soon put a stop to it. To obviate any threatening symptoms that may arise in regard to the wounds, have recourse to the above directions on docking.

Some
general di-
rections.

After six or eight days, it will be proper to let the horse stand without the machine for a few hours, and then be rode about, in order to observe how he carries his tail; by which means you will the better judge how to fasten it down, whether to confine it closer, or give it more scope: after the wounds are healed up, it may be necessary to keep the tail suspended, till the callus is confirmed, at least for

for some hours in the day; though a greater liberty may now be allowed it.

The advantages of the machine.

Thus this machine answers every intention, is far preferable to the pulley, as it keeps the tendons properly separated, and the tail in a certain position; so that the wounds heal up uniformly, without any risk of its being cast to one side; the horse also is more at ease having no weight constantly pulling and teasing him; and may be taken out to water or exercise, without any inconveniency or disturbance.

C H A P. XLIV.

Of Ruptures, Anticor, Colt-Evil or Gonorrhæa, *Diseases of the Mouth and Feet.*

HAVING omitted in their proper places to speak of the above disorders, some of which are not very common or peculiar to horses in this climate, I have thought proper to throw

...er in this last chap-
... might not be dis-
...ries after their

though Ruptures
part- described.

...y observe,
... the horse, on
... guts or caul may
... the muscles of the
... the navel, and through the
... the muscles into the scrotum
cod. The swellings are generally
about the size of a man's fist, some-
times much larger, descending to the
very hock; they are frequently soft,
and yield to the pressure of the hand;
when they will return into the cavity
of the belly with a rumbling noise;
and in most the vacuity may be felt,
through which they passed.

On their first appearance, endeavours
should be made to return them by the
hand; but if the swelling should be
hard and painful, in order to relieve
the stricture, and relax the parts,
through which the gut or caul has
passed

The
method of
treating
ruptures.

passed, let a large quantity of blood be immediately taken away, and the part fomented twice or thrice a day, applying over it a poultice made with oatmeal, oil and vinegar, which should be continued till the swelling grows soft and easier, or the gut is returned. In the mean time it would be proper to throw up emollient oily glysters twice a day, and to let the horse's chief diet be boiled barley, scalded malt or bran.

Should the swelling afterwards return, I apprehend the restraining applications usually recommended on these occasions, will avail little without a suspensory bandage; so that an ingenious mechanic in that art is chiefly to be relied on, for any future assistance; though it has been observed, that with moderate feeding, and gentle exercise, some horses have continued to be very useful under this complaint;

The
anticor
described.

The anticor is a disorder not very common among our *English* horses, or those in northern climates; but is particularly

particularly taken notice of by the *French, Spanish, and Italian* writers; who describe it a malignant swelling in the breast, which extends sometimes to the very sheath under the belly; it is attended with a fever, great depressions and weakness, and a total loss of appetite; but this last symptom may probably be owing to an inflammation which is supposed to affect the whole gullet and throat, so great, as to make the horse swallow with the utmost difficulty, and to endanger suffocation.

The cure should first be attempted by large and repeated bleedings; to abate the inflammation; emollient glysters should be injected twice or thrice a day, with an ounce of sal prunellæ in each, and the cooling drink in the chapter on *Fevers* should be given inwardly; the swelling should be bathed with the marshmallow ointment, and a ripening poultice with onions boiled in it, should be daily applied over it. If by this method, continued four or five days, the inflammation in the throat and gullet

The cure.

is removed, our attention should more particularly turn to encourage the swelling at the breast, and bring it if possible to matter: to which end, continue the poultice, and give two ounces of Venice treacle dissolved in a pint of beer every night; when the swelling is grown soft, it must be opened with the knife, and dressed with the turpentine digestive, the danger now being over.

Some
particular
directions.

But should it be found impracticable to bring the swelling to matter, and it increases upwards, so as to endanger suffocation; authors have advised to pierce the tumor with a hot pointed cautery in five or six places, to dress with the above digestive, and in order to stimulate and promote a greater discharge, to add to it a small quantity of Spanish flies and euphorbium in powder; fomenting at the same time, and bathing the circumjacent parts with ointment of marshmallows. *M. Guerinere*, as well as *Soleysel*, have advised, opening the skin when the tumor cannot be brought to matter, in order to introduce

duce a piece of black hellebore root steeped in vinegar, and to confine it there for twenty-four hours; this also is intended as a stimulant, and is said to answer the intention, by occasioning sometimes a swelling as big as a man's head.

Besides the disorders of the mouth, Disorders of the mouth described. which we have already animadverted on, there are frequently observed on the inside the lips and palate, little swellings or bladders, called Giggs: flitting them open with a knife, or lancet, and washing them afterwards with salt and vinegar, is in general their cure; but when they degenerate into what are called Cankers which are known by little white specks, that spread and occasion irregular ulcers; the best method then is to touch them daily with a small flat cautery, moderately heated, till the spreading is stopped, and to rub the sores three or four times a day with Ægyptiacum and tincture of myrrh, sharpened with oil or spirit of vitriol; when by this dressing the sloughs are separated, they may be washed frequently with a
 Z 3 sponge

Of Ruptures, Anticor,

sponge dipped in copperas or sublimate water, if they continue to spread ; or a tincture made by dissolving half an ounce of burnt allum. and two ounces of honey in a pint of tincture of roses. Either of these will dry them up, and are very useful in most disorders of the mouth.

A relaxation of the palate.

A relaxation, and swelling of the palate, sometimes happens to horses on catching cold. To remedy this disorder, blow pepper on the part, or anoint it with the same mixed up with honey. The tincture above-mentioned may be used for this purpose, to which may be added half an ounce of spirit of sal armoniac.

The colt-evil, and cure.

The colt-evil is supposed to arise from stoned colts having full liberty with mares, before they are able to cover them ; whence frequently ensues an excoriation, or fretting on the glands, and a swelling of the sheath ; this last disorder frequently proceeds too from dirt or filth lodging there, and is often removed by washing the part clean with butter and beer : but when

when the yard itself is swelled, foment it twice a day with marshmallows boiled in milk, to which may be added a little spirit of wine; anoint the excoriation with the white ointment, or wash it with a sponge dipped in lime water, to a pint of which may be added two drams of sugar of lead: the yard should be suspended up to the belly; and if the swelling should increase with inflammation, bleed and give the cooling physick, anoint with ointment of elder, and apply the bread and milk poultice.

If a simple gonorrhœa, or feminal gleet is observed to drip from the yard, The gonorrhœa, and cure. (which is often the case in high fed young horses, where a relaxation of the glands and seminal vessels has been brought on by frequent emissions) let the horse be plunged every day into a river or pond; give him two or three rhubarb purges, at proper distances, and intermediately the following balls:

T A K E of balsam of copivi, or Venice turpentine, olibanum and mastich powdered, of each two A strengthening ball. drams;

Of Ruptures, Anticor,

drams; bole armoniac half an ounce: mix up into a ball with honey, and give it night and morning, till the discharge lessens, and then every night till it goes off.

Balls prepared with rhubarb and turpentine, may also be given for this purpose, two drams of the former, with half an ounce of the latter.

But should this method not prove successful, two or three spoonfulls of the following injection, may be thrown up his yard every day, with a syringe.

TAKE balsam of copivi half an ounce, break it with the yolk of an egg, and add to it lime water half a pint, honey of roses two ounces.

Where an ulcer on the prostate glands is suspected, this injection is very proper at first, to deterge, and heal the sore; but those more restraining, should afterwards be used, in order to close up the relaxed ducts; for this purpose take the following.

Tincture

Tincture of roses one pint, burnt
allum two drams, white vitriol
half a dram, or a dram.

But it is worth remarking, that if
the horse continues to shed his feed,
by rubbing his yard against his belly;
no medicines will avail, till he is
cured of this vicious habit; which
probably nothing will so effectually
contribute to remove, as castration,
or a proper indulgence with mares.

The Indian rhubarb is not ex-
pensive; it may be bought at prime
cost, under twelve pence an ounce.

Observa-
tion.

Figs are spongy swellings on the
bottom of horse's feet, generally on
the sides of the frush. These or any
other kind of excreffences, such as
warts, corns, grapes, &c. are best re-
moved by the knife; and if any part
of them be left behind, or should shoot
up a-fresh, touch them with the cau-
stick, or oil of vitriol, and dress with
Ægyptiacum, to which may be added,
when they are very rebellious, a small
quantity

Figs,
warts,
gripes, &c.

Of Ruptures, Anticor,

quantity of sublimate; when the roots are quite destroyed, you may incern with the precipitate medicines and dry up the sore with the following :

A drying
wash.

TAKE of white vitriol, allum, and galls in powder, of each two ounces; dissolve them by boiling a little in two quarts of lime water, and keep in a bottle for use, which should be shook when used.

Some
proper ob-
servations.

These drying kind of medicines are seldom used to advantage before the knife; which should not be spared on these occasions, even though the roots of some of these excressences are fixed, as they frequently are, on the tendon and soal; for they must be intirely extirpated before a radical cure can be performed. Should a large bleeding ensue, from a division of the artery in the bottom of the foot, apply close to it a button of tow or lint covered with powder of allum, or with vitriol and bole; fill the whole foot up with dry dressings, closely applied

applied, and secure them on by a proper bandage. Observe the preceding directions in regard to inflammation, and dress the wound according to the rules we have already laid down.



*An Explanation of the two Heads
and Trepan, mentioned in Ch. XII.*

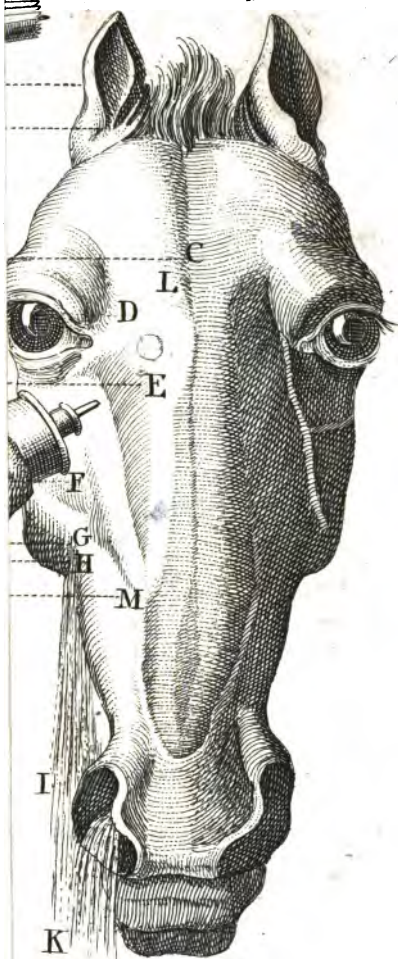
B. B. two lines representing the bounds of the cerebellum, or back part of the brain, which is very small in a horse, in proportion to that of a man, as well as the brain itself, which commences from the line D.

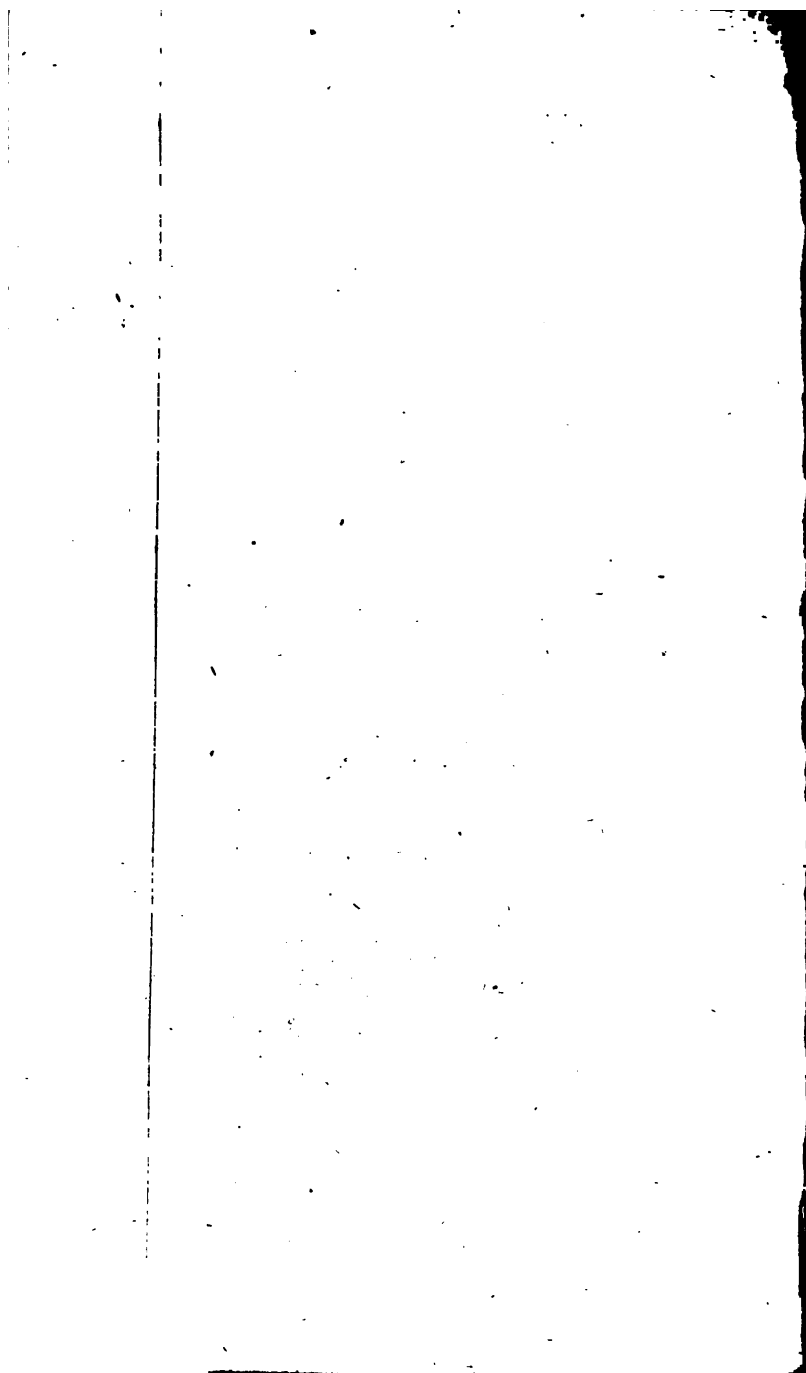
C. C. a line where the superior part of the sinus frontalis commences, together with a view of the bottom of this sinus, which terminates between the lines D and E, where there appears a substance in the form of a pear, which is the os ethmoides, or sieve-like bone; through which the olfactory nerves pass, by which the pituitary membrane receives its sensibility, and the sense of smelling is performed.

E, represents the beginning of the maxillary sinus, which terminates at M.

The shaded space which may be observed between these two lines, represents

to front. P.348.





presents the great cavities. The oblique ray marked F, is a bony partition, which separates this sinus into two parts, that have no communication; and sometimes it happens (though but rarely) that there are two bony partitions; and for this reason they are represented by the lines marked F and G. It also sometimes happens (but still more seldom) that there are horses, in whose heads we do not find any of these bony partitions.

N, points out the place of the cornets or horns. O, the redoublings. P, their middle part. Q, the inferior part of them. M, the bony canal or pipe which guards the maxillary nerve.

A, A, the septum narium, or partition, which divides the nose from top to bottom, and constitutes the two nostrils.

L, in the head that is intire, points out where the trepan should be applied on the frontal sinus, when we have reason to believe the glanders is spread into this sinus. However I think it
safe

An Explanation of the

safest to apply it first on E, for the reasons mentioned in the next explanation; and because the brain may be endangered, should the sinus be mistook.

E, the place where the trepan may be applied, in order to cleanse the maxillary sinus. The round mark between D and E (which is the impression of the trepan) is however on experience preferred by the author, as the properest place; as one orifice would then be sufficient to wash all the parts, both above and below, with the injection.

But in general, when the maxillary sinus only is affected, penetrate but the upper part, where the syringe points or thereabouts, and your expectations will be answered; should they not, there seems so little danger in the operation, that you may again perforate at the places above mentioned, higher up. But a proper number of experiments, will soon settle this point with certainty.

H,

H, in the head that is intire, points out the place where another hole, or perforation should be made, as a drain to give issue to the glanderous matter washed away by the injection; which could not be discharged without such a depending orifice; and perhaps this perforation alone, in many recent cases, would be sufficient, provided the injection passed freely upwards, and the hole was kept open by means of a hollow leaden pipe constantly retained in it for that purpose, and to procure a free passage for the matter.

I, represents the injection pushed in by the syringe, which flows out by the orifice and the nostril K; during the use of the syringe, it is necessary to hold the nostrils close.

If, in the maxillary sinus, instead of one, there happens to be two bony partitions; it is absolutely necessary to pierce through them both, by means of a stiletto, or sharp-pointed tuck, as in the manner represented in the
cut

An Explanation of the

cut of a horse's head opened; though this conformation seldom occurs.

As these bony partitions may in some particulars vary, should the stileto not have the desired effect, and the injection thrown in by the syringe not come out at H; in such case the liquor should be injected upwards, through the orifice made by the stileto or trepan at H.

As in young horses the frontal and maxillary sinusses are very small, it will be proper to direct the trepan towards the interior part of the nose; otherwise the instrument might work upon the roots of the teeth, which incline towards the sinus, and would in such case be an insurmountable obstacle to the operation.

R, the instrument or trepan. S, the handle which turns it. T, the saw-part to be applied to the bone.

From a view of this instrument, the manner of working it will appear simple and easy. The cooper's managing

managing his wimble being a proper directory.

The instrument called the trephine, which is chiefly used by our *English* surgeons in perforating the skull, will equally answer this purpose; and if any difficulties should arise, notwithstanding this description, the gentlemen of the faculty will soon make it familiar and intelligible.

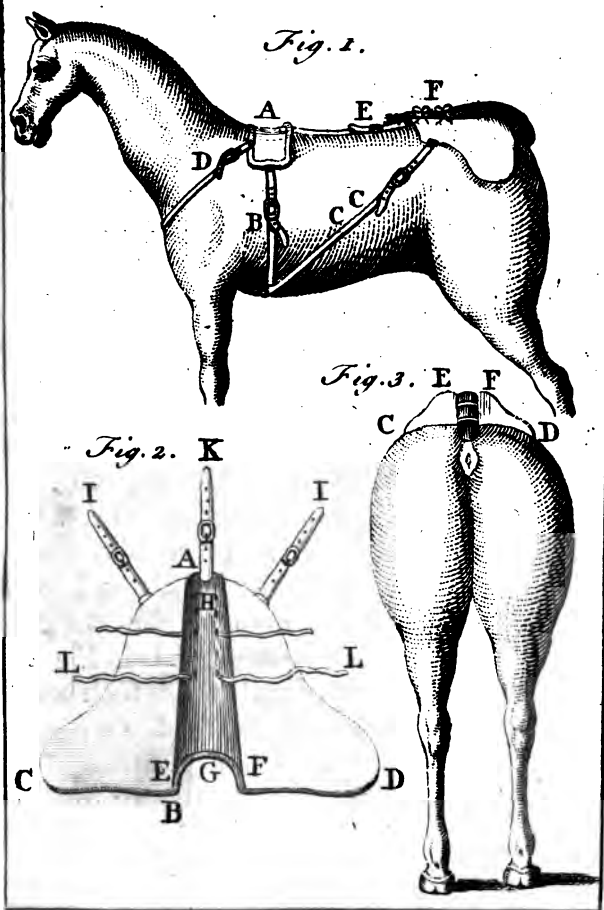
Before the application of the trepan, or trephine, it is quite necessary to observe, that a circular piece of the skin should first be cut off, with the membrane which covers the bone, about the size of a half crown piece; in order to make the instrument work the easier, and to prevent the inconveniences which might arise, from the external wounds healing up too fast.

The syringe should be large enough to contain half a pint of injection.

*Directions for the Application of
the Nicking Machine; and
Explanation of the Plates.*

WHEN the hair of the tail is properly platted, and tied with a knot or two at the end, the pad &c. as described in Fig. I. must be put on, and the machine, as in Fig II. buckled, to them, letting the part G. in the machine lie over the part of the tail, that joins to the horse's rump; then let an assistant, standing on the side rail of a brake, or any other conveniency that may place him above the horse, raise the horse's tail very gently, till the knot of the tail gets so far beyond the strings LL in Fig. II, that it may be tied down, which being done, the tail may be let down lower, or taken up higher at pleasure. It is to be observed, that the ligature is not made on the tail itself, but on the platted hair, at the extremity of the stump.

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The machine, Fig. II, must be made of a piece of tough wood, about a foot long, *viz.* from A to B, and about 19 inches broad from C to D, and 7 or 8 inches thick. The under part must be hollowed, so as to let in the horse's rump, and that the wings CD may rest on his buttocks. To receive the tail, a groove must be cut from G to H, about 3 inches wide and 3 deep at G, lessening gradually both in height and breadth to H. Holes must be made at certain distances in the groove, as at H for the string, and a nick cut to receive the billet from the strap K. Two buckles fixed to the machine as at II.

The pad, &c. are sufficiently described in Fig. I, and its references: the wood must be sloped off from E to C and A, and so on the other side, to lighten the machine, and hollowed at B. G. F.

Fig. I.

Represents a horse with his tail in the frame, or machine. A. is a pad,

A a 2. to

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to which is fastened a circingle B. CC two side straps, one on each side the horse, fastened to the circingle to keep the machine from going to either side; D a breast-plate, to prevent the pad, &c. slipping back. E a strap fixed to the pad, and buckling to the machine, to keep the tail on the stretch at pleasure. F the string tied on the hair, to confine the tail down to the machine.

Fig. II.

From A to B is 12 inches; from C to D measured with a string drawn over EF is 19 inches. From the top of the groove at E to the bottom G is 3 inches. From E to F, the widest part of the groove, is 3 inches, gradually narrowing, as a tail lessens to its extremity. The dots about H are holes in the groove, through which a piece of tape or pack-thread must be put, according to the length of the dock, and the distance of the knot, to tie the tail down behind the knot. II. the buckles, to receive a strap from the circingle on each side, as described in

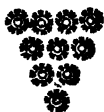
in Fig. I. which keeps the machine from turning to either side. K the strap with a billet and buckle, which comes along the back from the pad, and is fastened to the machine through a nick cut just above H. L L the strings to tie down the tail. B. G. F. the hollow to let in the rump.

Fig. III.

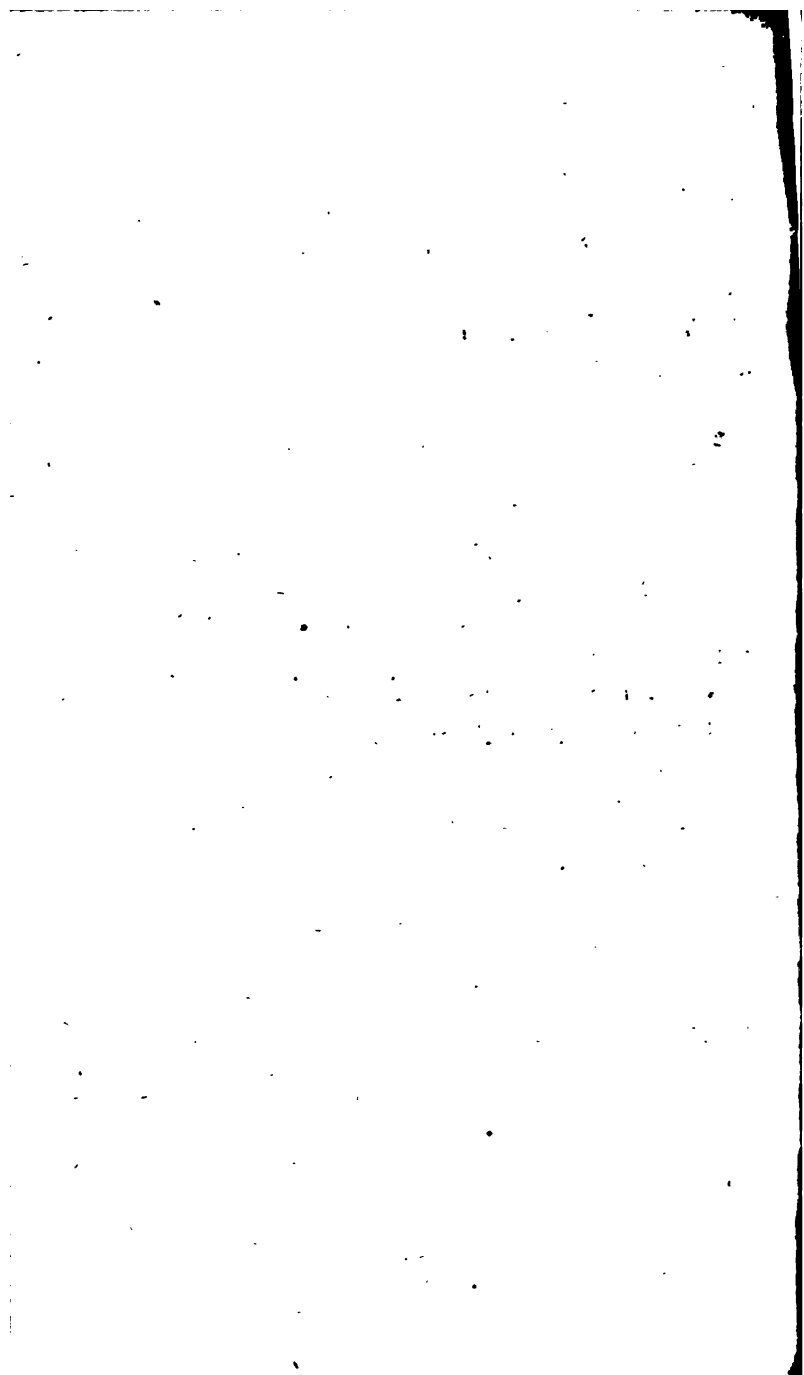
Represents the horse with the machine on, standing directly before you, where the depth of it is shewn, being three inches.

C.D. the extremities of the wings.

E.F. the upper part.



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curious, r. *mercurius*. P. 94, l. 10, for *in r. on*. P. 95, l. 14,
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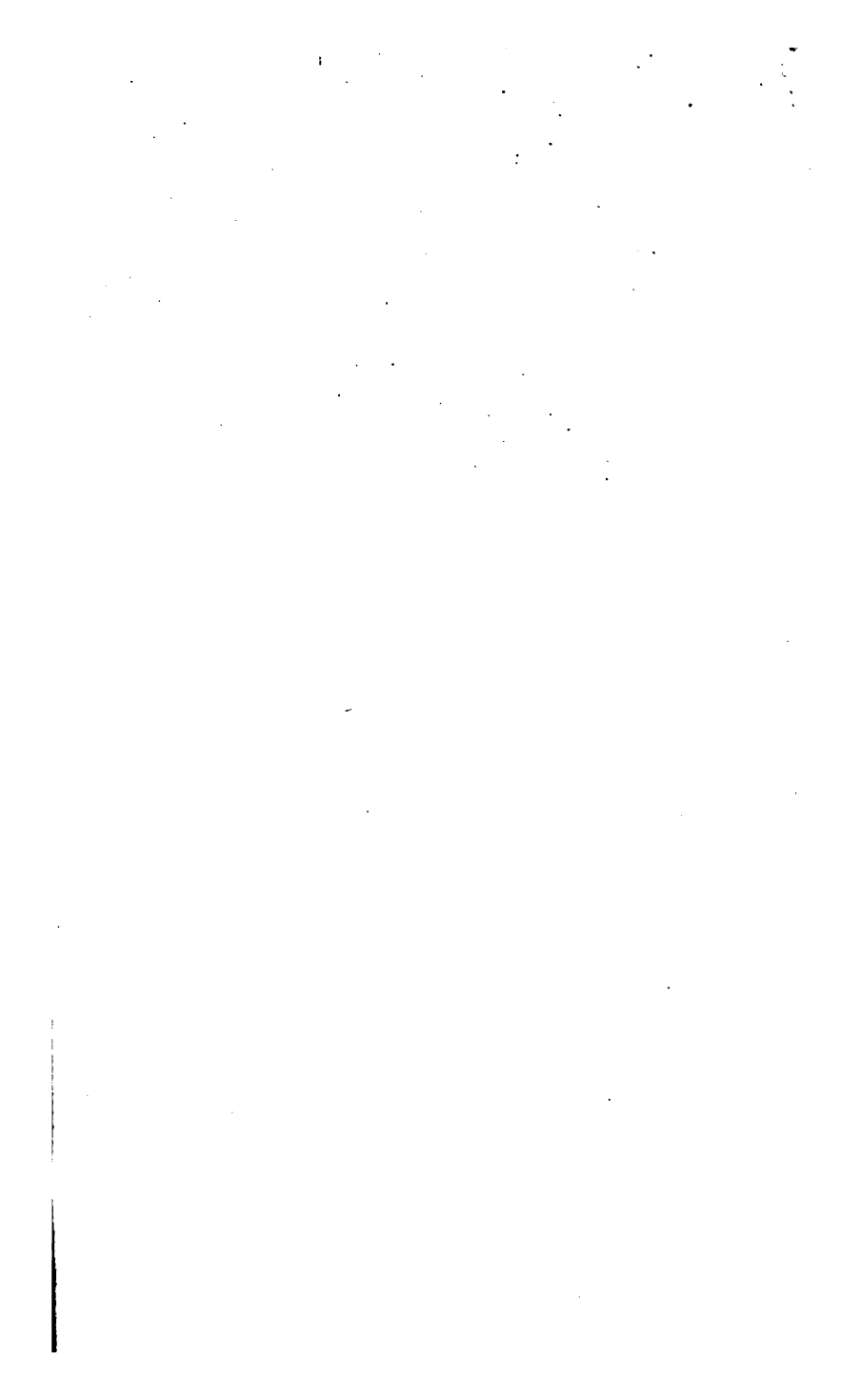
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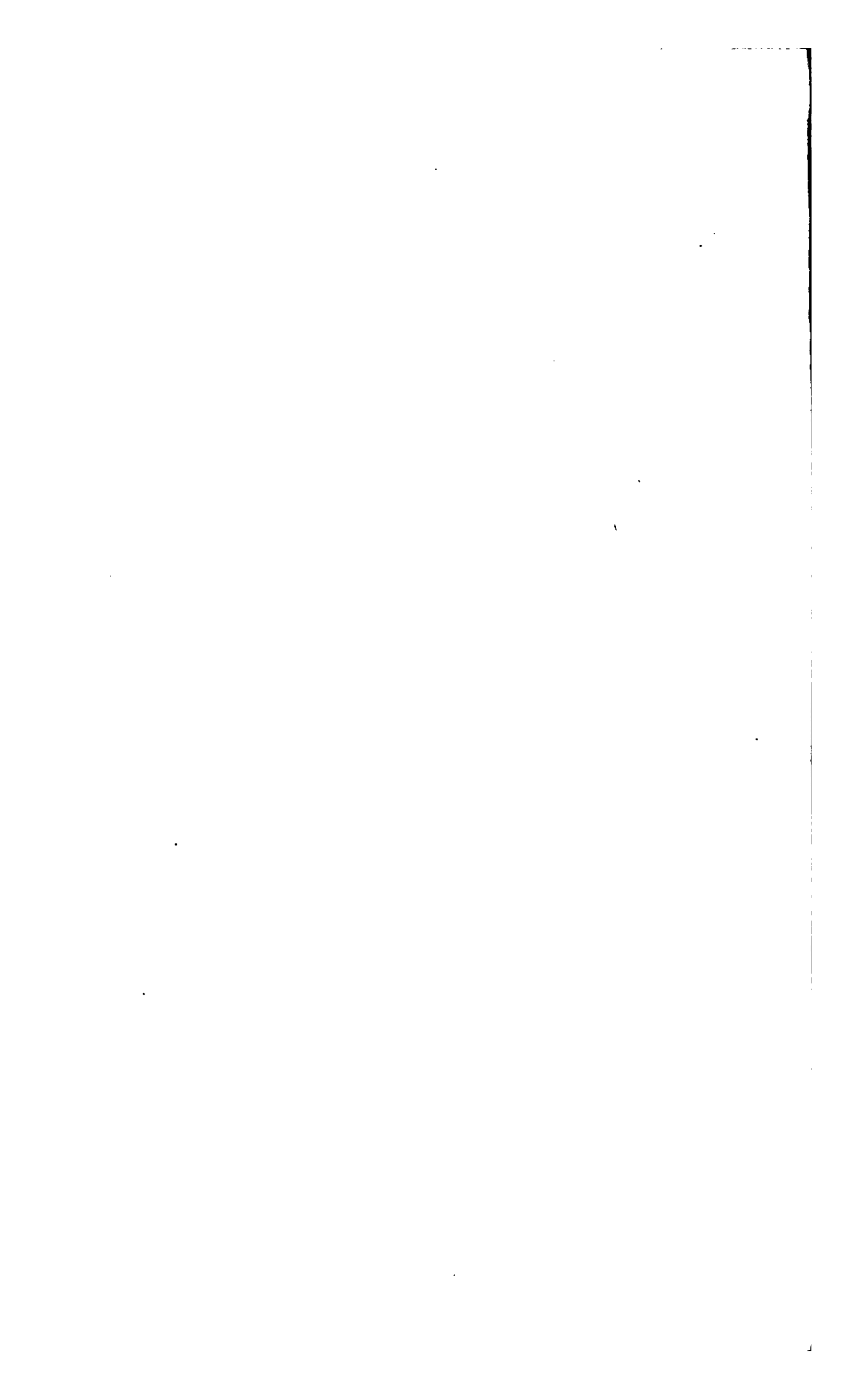
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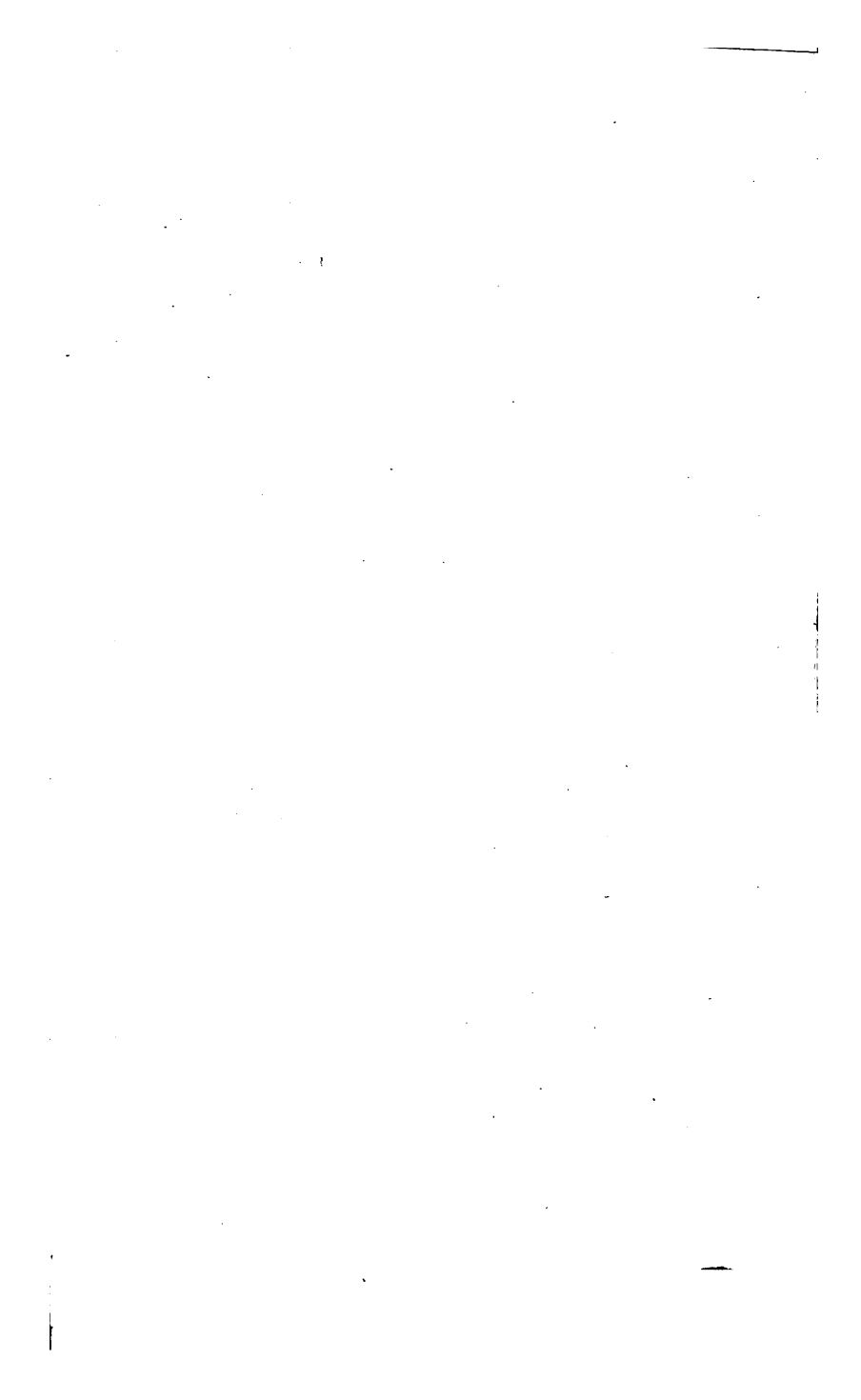
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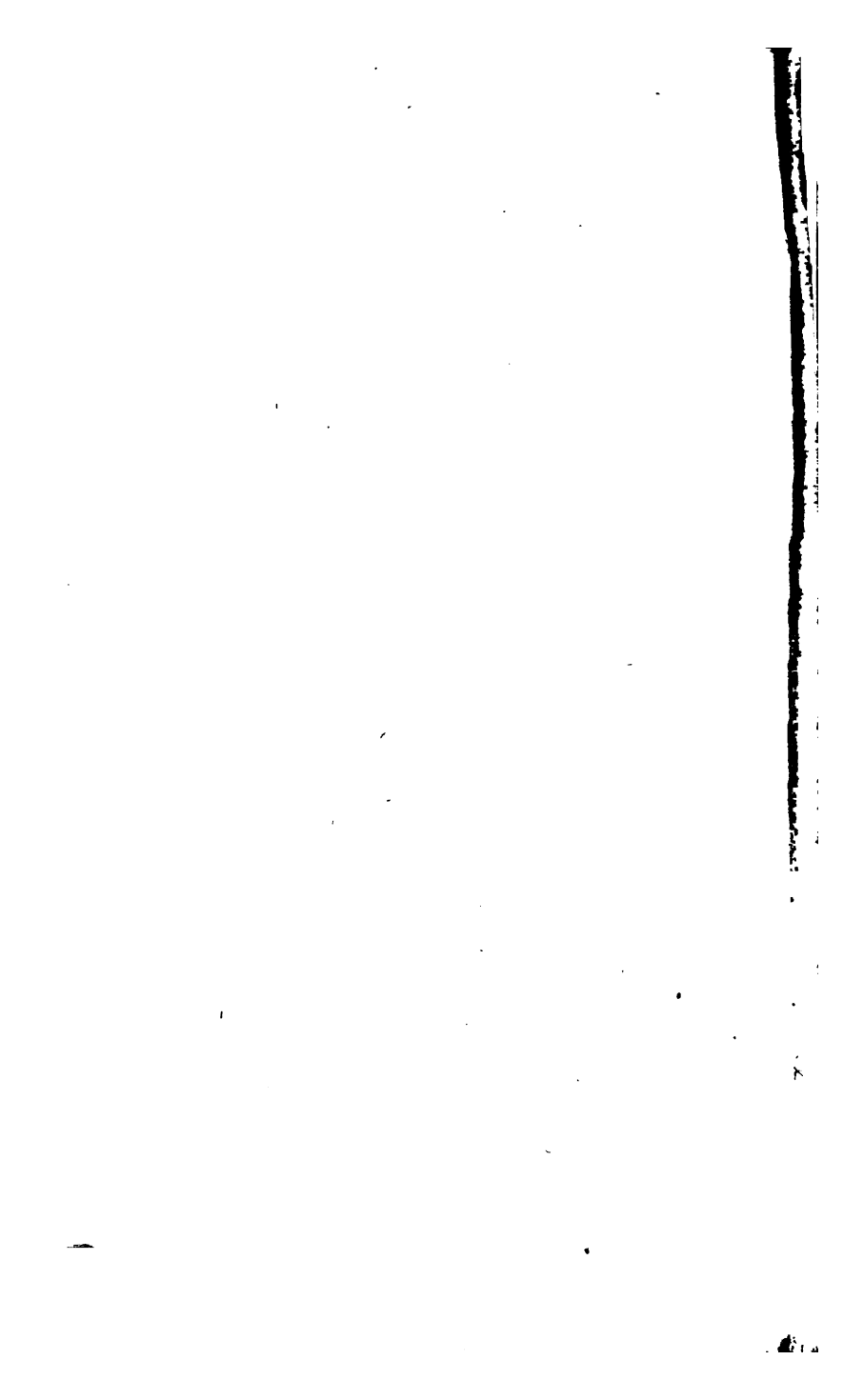
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